

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 31, 2003, 02:39:38 : Search time 54.0573 Seconds
(without alignments)
5976.847 Million cell updates/sec

Title: US-09-550-163-1

Perfect score: 732

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Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database:

Issued Patents NA: *
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	53.2	7.3	1703	3 US-09-135-021-77	Sequence 77, Appl1
4	53.2	7.3	1703	3 US-09-135-020-3	Sequence 3, Appl1
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7	53.2	7.3	1703	4 US-09-597-735-3	Sequence 3, Appl1
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14	36.2	4.9	1335	4 US-09-016-434-1360	Sequence 1, Appl1
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21	36.2	4.9	1582	4 US-08-374-009-14	Sequence 14, Appl1
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23	33.6	4.6	645	4 US-09-471-468-2	Sequence 2, Appl1
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25	33.4	4.5	606	3 US-09-328-111-133	Sequence 133, App
26	33.4	4.5	2912	4 US-09-307-143-3	Sequence 3, Appl1
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C 33	32	4.4	246240	2 US-08-724-394A-21	Sequence 21, Appl1
C 34	32	4.4	246240	2 US-08-724-394A-22	Sequence 22, Appl1
C 35	32	4.4	1830121	4 US-09-557-884-1	Sequence 1, Appl1
C 36	32	4.4	1830121	4 US-09-643-990A-1	Sequence 1, Appl1
C 37	31.6	4.3	164976	4 US-08-916-421B-1	Sequence 916, App
C 38	31.4	4.3	566	4 US-09-221-017B-919	Sequence 336, App
C 39	31.2	4.3	2450	4 US-09-620-312D-336	Sequence 337, App
C 40	31.2	4.3	2513	4 US-09-620-312D-337	Sequence 6426, App
C 41	31	4.2	2049	4 US-09-252-991A-6426	Sequence 5, Appl1
C 42	30.8	4.2	7489	4 US-09-674-677-5	Sequence 17, Appl1
C 43	30.6	4.2	744	3 US-08-969-644-17	Sequence 17, Appl1
C 44	30.6	4.2	744	3 US-08-444-189-17	Sequence 17, Appl1
C 45	30.6	4.2	744	3 US-08-468-544-17	Sequence 17, Appl1

ALIGNMENTS

RESULT 1
US-08-118-101A-5
Sequence 5, Application US/08118101A
Patent No. 5620892
GENERAL INFORMATION:
APPLICANT: Kurtz, Stephen E.
APPLICANT: Knickerbocker, Aron M.
TITLE OF INVENTION: A STRAIN OF SACCAROMYCES CEREVISIAE
TITLE OF INVENTION: EXPRESSING THE GENE ENCODING POTASSIUM TRANSPORTER MINK
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Burton Rodney
STREET: P.O. Box 4000
CITY: Princeton
STATE: New Jersey
COUNTRY: U.S.A.
ZIP: 08543-4000
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/118,101A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Gaul, Timothy J.
REGISTRATION NUMBER: 33,111
REFERENCE/DOCKET NUMBER: DC27
TELECOMMUNICATION INFORMATION:
TELEPHONE: (609) 252-5901
TELEFAX: (609) 252-4526
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 398 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..398
US-08-118-101A-5
Query Match 7.3%; Score 53.2; DB 1; Length 398;
Best Local Similarity 63.6%; Pred. No. 5e-07;
Matches 98; Conservative 0; Mismatches 53; Indels 3; Gaps 1;

CURRENT APPLICATION NUMBER: US/09/135,021A

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RESULT 6
 US-09-444-871-3
 : Sequence 3, Application US/09444871
 : Patent No. 6323026
 : GENERAL INFORMATION:
 : APPLICANT: Keating, Mark T.
 : APPLICANT: Sanguinetti, Michael C.
 : APPLICANT: Splawski, Igor
 : TITLE OF INVENTION: MUTATIONS IN THE KCNE1 GENE ENCODING HUMAN MINK WHICH
 : TITLE OF INVENTION: CAUSE ARRYTHMIA SUSCEPTIBILITY THEREBY ESTABLISHING
 : TITLE OF INVENTION: KCNE1 AS AN IQT GENE

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? GENERAL INFORMATION:
? APPLICANT: Keating, Mark T.
? APPLICANT: Sanguinetti, Michael C.
? APPLICANT: Curran, Mark E.
? APPLICANT: Landes, Gregory M.
? APPLICANT: Connors, Timothy D.
? APPLICANT: Burn, Timothy C.
? APPLICANT: Spisak, Igor
? TITLE OF INVENTION: KVLDT1 - A LONG QT SYNDROME GENE
? FILE REFERENCE: 2323-133
? CURRENT APPLICATION NUMBER: US/09/597,735
? CURRENT FILING DATE: 2000-06-19
? EARLIER APPLICATION NUMBER: 09/135,010
? EARLIER FILING DATE: 1998-08-17
? EARLIER APPLICATION NUMBER: 60/094,477
? EARLIER FILING DATE: 1998-07-29
? EARLIER APPLICATION NUMBER: 08/921,068
? EARLIER FILING DATE: 1997-08-29
? EARLIER APPLICATION NUMBER: 08/739,383
? EARLIER FILING DATE: 1996-10-29
? EARLIER APPLICATION NUMBER: 60/019,014
? EARLIER FILING DATE: 1995-12-22
? NUMBER OF SEQ ID NOS: 116
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO 3
? LENGTH: 1703
? TYPE: DNA
? ORGANISM: Homo sapiens

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RESULT 13

US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: PTZpt-Fis
; US-08-232-463-14

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DB 1338 RRR 1279
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DB 1218 RRR 1159

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DB 1158 RRR 1099
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RESULT 14

US-09-016-434-1360
; Sequence 1360, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1360:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1335 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: 9408691
; US-09-016-434-1360

Query Match 4.9%; Score 36; DB 4; Length 1335;
Best Local Similarity 52.7%; Pred. No. 0.26;
Matches 78; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

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DB 988 TCCACCACTGTGAGACCATTCAGTACA 1015

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 31, 2003, 03:28:33 ; Search time 814.04 Seconds
(without alignments)
2445.688 Million cell updates/sec

Title: US-09-550-163-1

Perfect score: 732

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

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- 17: /cgn2_6/ptodata/1/pubpna/US6C_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	730.4	99.8	113604	US-10-227-195A-2	Sequence 2, Appli
4	372	50.8	372	US-09-864-761-33139	Sequence 33139, A
5	368	50.3	450	US-09-864-761-3463	Sequence 3463, Ap
6	312	42.6	312	US-09-864-761-20233	Sequence 20233, A
7	306	41.8	471	US-09-864-761-16671	Sequence 16671, A
8	60	8.2	60	US-09-908-975-10209	Sequence 10209, A
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13	53.2	7.3	436	US-10-260-861-1	Sequence 1, Appli
14	53.2	7.3	949	US-10-101-510-498	Sequence 498, App
15	53.2	7.3	1200	US-10-224-683-5	Sequence 5, Appli
16	53.2	7.3	1703	US-10-368-643-3	Sequence 3, Appli

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29	36.4	5.0	41	US-10-224-683-171	Sequence 171, App
30	36	4.9	1146	US-09-853-386-111	Sequence 111, App
31	36	4.9	1146	US-09-799-978-5	Sequence 5, Appli
32	36	4.9	1146	US-10-225-678-379	Sequence 379, App
33	36	4.9	1206	US-09-853-386-107	Sequence 107, App
34	36	4.9	1206	US-09-853-386-117	Sequence 117, App
35	36	4.9	1206	US-09-799-978-7	Sequence 7, Appli
36	36	4.9	1285	US-09-799-978-3	Sequence 3, Appli
37	36	4.9	1495	US-09-191-724-1	Sequence 1, Appli
38	36	4.9	1582	US-09-191-724-14	Sequence 14, Appli
39	36	4.9	2536	US-09-799-978-1	Sequence 1, Appli
c 40	36	4.9	2579	US-09-822-630A-30	Sequence 30, Appli
41	36	4.9	3673778	US-10-312-841-1	Sequence 1, Appli
42	35.8	4.9	4057	US-10-240-453-261	Sequence 261, App
43	35.8	4.9	4057	US-10-239-676-181	Sequence 181, App
44	34.8	4.8	527	US-10-184-644-522	Sequence 522, App
45	34.8	4.8	527	US-10-184-634-522	Sequence 522, App

ALIGNMENTS

RESULT 1
US-10-000-151B-5
; Sequence 5, Application US/10000151B
; Publication No. US20030013136A1
; GENERAL INFORMATION:
; APPLICANT: Balseer, Jeffrey R.
; APPLICANT: George, Alfred L.
; TITLE OF INVENTION: HUMAN KCR1 REGULATION OF HERG POTASSIUM CHANNEL BLOCK
; FILE REFERENCE: Vandeblille Ref No. US20030013136A1 VU0120; Attorney Docket No. US2003
; CURRENT APPLICATION NUMBER: US/10/000.151B
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 732
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-000-151B-5

Query Match 99.8%; Score 730.4; DB 14; Length 732;
Best Local Similarity 99.9%; Pred. No. 7.9e-209;
Matches 731; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY	1	CAATCCGAAAAGATCCGTTTCTTAACCTTGTTCGCTATTATTTAATTCGA	60
DB	1	CAATCCGAAAAGATCCGTTTCTTAACCTTGTTCGCTATTATTTAATTCGA	60
QY	61	GCAGAGGAGGAGCATGTCTACTTATTCATTTACACAGAGCTGGAAGAGCTTCCG	120
DB	61	GCAGAGGAGGAGCATGTCTACTTATTCATTTACACAGAGCTGGAAGAGCTTCCG	120
QY	121	AAGATTTTATTTACTTATATGACCAATTTGCGCCGAGAACCAACAGCTGACCAAGGC	180
DB	121	AAGATTTTATTTACTTATATGACCAATTTGCGCCGAGAACCAACAGCTGACCAAGGC	180
QY	181	CCTCCACCAAGTGTATGCTGAGAACTTTCTATCTATCTCTCTCTCTCTCTCTCTAT	240
DB	181	CCTCCACCAAGTGTATGCTGAGAACTTTCTATCTATCTCTCTCTCTCTCTCTCTAT	240

QY 241 GATTGAAATGTTCTTTTCATCATCTGGCCATCTGCTGGAGCACTGTGAATCCAAAG 300
 Db 241 GATTGAAATGTTCTTTTCATCATCTGGCCATCTGCTGGAGCACTGTGAATCCAAAG 300
 QY 301 ACGGGAACATCTCCAAATGACCCCTACCACTGATCATTTGTAGAGACTGGAGGAAAGTA 360
 Db 301 ACGGGAACATCTCCAAATGACCCCTACCACTGATCATTTGTAGAGACTGGAGGAAAGTA 360
 QY 361 CAAGAGCCAAATCTTGAAATCTAGAAAGATGGAAGGACCATCATGAGAACTTGGTGC 420
 Db 361 CAAGAGCCAAATCTTGAAATCTAGAAAGATGGAAGGACCATCATGAGAACTTGGTGC 420
 QY 421 GCGTGGGTTCAAAATGTCCCTCGATAGAGGAGAAAGCAACAAGCTAACATCTGACGTC 480
 Db 421 GCGTGGGTTCAAAATGTCCCTCGATAGAGGAGAAAGCAACAAGCTAACATCTGACGTC 480
 QY 481 CAGACATGAAGATGCGACATGCGCAAGGCAAAATCCAAATGCTTTGCTTGAAGAAA 540
 Db 481 CAGACATGAAGATGCGACATGCGCAAGGCAAAATCCAAATGCTTTGCTTGAAGAAA 540
 QY 541 GTGAGTTCCTTGTCTTTGTTGAGAAATTTTCATGAGATATGTGTTGCCAATAAGA 600
 Db 541 GTGAGTTCCTTGTCTTTGTTGAGAAATTTTCATGAGATATGTGTTGCCAATAAGA 600
 QY 601 TAGATGACATTTCAATCTCAGATGATTTATGCTTGTGTTGAGCAATATTTGTGCTGA 660
 Db 601 TAGATGACATTTCAATCTCAGATGATTTATGCTTGTGTTGAGCAATATTTGTGCTGA 660
 QY 661 AGACCTCTTTTACCTTCCGGGCAAGTGAATGATTTTATCAATATCAATGATGAATAAT 720
 Db 661 AGACCTCTTTTACCTTCCGGGCAAGTGAATGATTTTATCAATATCAATGATGAATAAT 720
 QY 721 AAAGCCAAATTT 732
 Db 721 AAAGCCAAATTT 732

RESULT 2
 US-10-227-195A-1
 ; Sequence 1, Application US/10227195A
 ; Publication No. US20030077633A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Cox, David
 ; APPLICANT: Arnold, Deana
 ; TITLE OF INVENTION: Haplotype structure of chromosome 21
 ; FILE REFERENCE: 1030U1
 ; CURRENT APPLICATION NUMBER: US/10/227,195A
 ; NUMBER OF SEQ ID NOS: 2
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 1
 ; LENGTH: 113604
 ; TYPE: DNA
 ; ORGANISM: Human
 ; FEATURES:
 ; NAME/KEY: misc feature
 ; LOCATION: 7175, 7204, 36972, 66372, 76921, 81512, 88727
 ; OTHER INFORMATION: n = G or C
 US-10-227-195A-1

Query Match 99.8%; Score 730.4; DB 14; Length 113604;
 Best Local Similarity 99.9%; Pred. No. 1.5e-207;
 Matches 731; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CAATCCAGAAAAGATCCGTTTCCCTAACCTTGTCGCCATTTATTTAATTGA 60
 Db 17403 CAATCCAGAAAAGATCCGTTTCCCTAACCTTGTCGCCATTTATTTAATTGA 17462
 QY 61 GCAGAGGAGAGATGTTCTTATCTTATCAATTTACACAGACGCTGGAAGACGTTCCG 120
 Db 17463 GCAGAGGAGAGATGTTCTTATCTTATCAATTTACACAGACGCTGGAAGACGTTCCG 17522
 QY 121 AAGGATTTTATTAATTATATGACAAATGGCGCCAGAACAAACAGCTGAGCAAGAGGC 180

Db 17523 AAGGATTTTATTAATTATATGAGCAATGGCGCCAGAACACAAACGCTGAGCAAGAGGC 17582
 QY 181 CCTCCAGGCAAGTTGATGCTGAGAACTTTACTATATGCAATCCCTACTCATGTGTAT 240
 Db 17583 CCTCCAGGCAAGTTGATGCTGAGAACTTTACTATATGCAATCCCTACTCATGTGTAT 17642
 QY 241 GATTGAAATGTTCTTTTCATCATGCTGGCCATCTGCTGAGCACTGTGAATCCAAAG 300
 Db 17643 GATTGAAATGTTCTTTTCATCATGCTGGCCATCTGCTGAGCACTGTGAATCCAAAG 17702
 QY 301 ACGGGAACATCTCCAAATGACCCCTACCACTGATCATTTGTAGAGACTGGAGGAAAGTA 360
 Db 17703 ACGGGAACATCTCCAAATGACCCCTACCACTGATCATTTGTAGAGACTGGAGGAAAGTA 17762
 QY 361 CAAGAGCCAAATCTTGAAATCTAGAAAGATGGAAGGACCATCATGAGAACTTGGTGC 420
 Db 17763 CAAGAGCCAAATCTTGAAATCTAGAAAGATGGAAGGACCATCATGAGAACTTGGTGC 17822
 QY 421 GCGTGGGTTCAAAATGTCCCTCGATAGAGGAGAAAGCAACCAAGCTAACATCTGACGTC 480
 Db 17823 GCGTGGGTTCAAAATGTCCCTCGATAGAGGAGAAAGCAACCAAGCTAACATCTGACGTC 17882
 QY 481 CAGACATGAAGATGCGACATGCGCAAGGCAAAATCCAAATGCTTTGCTTGAAGAAA 540
 Db 17883 CAGACATGAAGATGCGACATGCGCAAGGCAAAATCCAAATGCTTTGCTTGAAGAAA 17942
 QY 541 GTGAGTTCCTTGTCTTTGTTGAGAAATTTTCATGAGATATGTGTTGCCAATAAGA 600
 Db 17943 GTGAGTTCCTTGTCTTTGTTGAGAAATTTTCATGAGATATGTGTTGCCAATAAGA 18002
 QY 601 TAGATGACATTTCAATCTCAGATGATTTATGCTTGTGTTGAGCAATATTTGTGCTGA 660
 Db 18003 TAGATGACATTTCAATCTCAGATGATTTATGCTTGTGTTGAGCAATATTTGTGCTGA 18062
 QY 661 AGACCTCTTTTACCTTCCGGGCAAGTGAATGATTTTATCAATATCAATGATGAATAAT 720
 Db 18063 AGACCTCTTTTACCTTCCGGGCAAGTGAATGATTTTATCAATATCAATGATGAATAAT 18122
 QY 721 AAAGCCAAATTT 732
 Db 18123 AAAGCCAAATTT 18134

RESULT 3
 US-10-227-195A-2
 ; Sequence 2, Application US/10227195A
 ; Publication No. US20030077633A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Cox, David
 ; APPLICANT: Arnold, Deana
 ; TITLE OF INVENTION: Haplotype structure of chromosome 21
 ; FILE REFERENCE: 1030U1
 ; CURRENT APPLICATION NUMBER: US/10/227,195A
 ; NUMBER OF SEQ ID NOS: 2
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 2
 ; LENGTH: 113604
 ; TYPE: DNA
 ; ORGANISM: Human
 US-10-227-195A-2

Query Match 99.8%; Score 730.4; DB 14; Length 113604;
 Best Local Similarity 99.9%; Pred. No. 1.5e-207;
 Matches 731; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CAATCCAGAAAAGATCCGTTTCCCTAACCTTGTCGCCATTTATTTAATTGA 60
 Db 17403 CAATCCAGAAAAGATCCGTTTCCCTAACCTTGTCGCCATTTATTTAATTGA 17462
 QY 61 GCAGAGGAGAGATGTTCTTATCTTATCAATTTACACAGACGCTGGAAGAGGCTTCCG 120

Db	17463	CCAGAGGGAAGCAGTCTACTTATTCATATTTACACACAGCGTGGAAAGCTCTTCGG	17522
Qy	121	AAGATTTTATTTATCTTATATGACAAATGGCCGACAGACACAACTGTCGCAAGAGC	180
Db	17523	AAAGATTTTATTTATTTATATGACAAATTTGGCCGACAGACACAACTGTCGCAAGAGC	17582
Qy	181	CCTCCAGGCCAAAGTGTGATGCTGGAACCTTCACTATATGATCATCTGTACCTCATGGTGAT	240
Db	17583	CCTCCAGGCCAAAGTGTGATGCTGGAACCTTCACTATATGATCATCTGTACCTCATGGTGAT	17642
Qy	241	GATTGGAATGTTCTCTTTTCATCATCGTGGCCATCTGGTAGACACTGTGAAATCCAGAG	300
Db	17643	GATTGGAATGTTCTCTTTTCATCATCGTGGCCATCTGGTAGACACTGTGAAATCCAGAG	17702
Qy	301	ACGGGAACACTCCATAGACCCCTTACACACAGTACATTGTAGAGGACTGGCAGGAAAGTA	360
Db	17703	ACGGGAACACTCCATAGACCCCTTACACACAGTACATTGTAGAGGACTGGCAGGAAAGTA	17762
Qy	361	CAAGAAGCCAAATCTTGAATCTAGAAAGATGGAAGGCCACATCCATGAGAAACATTGGTGC	420
Db	17763	CAAGAAGCCAAATCTTGAATCTAGAAAGATGGAAGGCCACATCCATGAGAAACATTGGTGC	17822
Qy	421	GGCTGGGTTCAAAATGTCCCTGTATGAAGGAGAAAGGACCAAGCTACATCTGACGTC	480
Db	17823	GGCTGGGTTCAAAATGTCCCTGTATGAAGGAGAAAGGACCAAGCTACATCTGACGTC	17882
Qy	481	CAGACATGAAGAGATGCGCAGTCCACGAGGCCAAATCCAAATTTGCTTTGTAGAGAA	540
Db	17883	CAGACATGAAGAGATGCGCAGTCCACGAGGCCAAATCCAAATTTGCTTTGTAGAGAA	17942
Qy	541	GTCGATTCCTTTCCTCTTGTGTGAGAAATTTTCATGAGATTAATGTGGTGGCCATTAAGA	600
Db	17943	GTCGATTCCTTTCCTCTTGTGTGAGAAATTTTCATGAGATTAATGTGGTGGCCATTAAGA	18002
Qy	601	TAGATGACATTTCAATCTCAGTGAATTAATGCTTGTGTGAGCAATATTTTGTGTCGA	660
Db	18003	TAGATGACATTTCAATCTCAGTGAATTAATGCTTGTGTGAGCAATATTTTGTGTCGA	18062
Qy	661	AGACCTCTTTTACTTTCGCGGCAAGTGAATGTCAATTTTAATCAATATGATGAAT	720
Db	18063	AGACCTCTTTTACTTTCGCGGCAAGTGAATGTCAATTTTAATCAATATGATGAAT	18122
Qy	721	AAAGCCAAATTT 732	
Db	18123	AAAGCCAAATTT 18134	

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1  PRIOR APPLICATION NUMBER: PCT/US01/00667
2  PRIOR FILING DATE: 2001-01-30
3  PRIOR APPLICATION NUMBER: PCT/US01/00664
4  PRIOR FILING DATE: 2001-01-30
5  PRIOR APPLICATION NUMBER: PCT/US01/00669
6  PRIOR FILING DATE: 2001-01-30
7  PRIOR APPLICATION NUMBER: PCT/US01/00665
8  PRIOR FILING DATE: 2001-01-30
9  PRIOR APPLICATION NUMBER: PCT/US01/00668
10 PRIOR FILING DATE: 2001-01-30
11 PRIOR APPLICATION NUMBER: PCT/US01/00663
12 PRIOR FILING DATE: 2001-01-30
13 PRIOR APPLICATION NUMBER: PCT/US01/00662
14 PRIOR FILING DATE: 2001-01-30
15 PRIOR APPLICATION NUMBER: PCT/US01/00661
16 PRIOR FILING DATE: 2001-01-30
17 PRIOR APPLICATION NUMBER: PCT/US01/00670
18 PRIOR FILING DATE: 2001-01-30
19 PRIOR APPLICATION NUMBER: US 60/234,687
20 PRIOR FILING DATE: 2000-09-21
21 PRIOR APPLICATION NUMBER: US 09/608,408
22 PRIOR FILING DATE: 2000-06-30
23 PRIOR APPLICATION NUMBER: US 09/774,203
24 PRIOR FILING DATE: 2001-01-29
25 NUMBER OF SEQ ID NOS: 49117
26 SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
27 SEQ ID NO 33139
28 LENGTH: 372
29 TYPE: DNA
30 ORGANISM: Homo sapiens
31 FEATURE:
32 OTHER INFORMATION: MAP TO AP00120.1
33 OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.98
34 OTHER INFORMATION: EXPRESSED IN HEL100, SIGNAL = 0.67
35 OTHER INFORMATION: EST HUMAN HIT: A154452.1, EVALU0.00e+00
36 OTHER INFORMATION: SWISSPROT HIT: Q9YUJ6, EVALU0.00e+00
37 OTHER INFORMATION: NT HIT: g11526220, EVALU0.00e+00
38 US-09-864-761-33139
39
40 Query Match 50.8%; Score 372; DB 9; Length 372;
41 Best Local Similarity 100.0%; Pred. No. 2.7e-101; Indels 0; Gaps 0
42 Matches 372; Conservative 0; Mismatches 0;
43
44 QY 74 ATGTCTATTATTCATTTCACACAGACGCTGGAGAAGACGTCTTCGGAAGATTTTATT 133
45 1 ATGTCTATTATTCATTTCACACAGACGCTGGAGAAGACGTCTTCGGAAGATTTTATT 60
46
47 QY 134 ACTTATATGCAATTGGCGCCAGAACCAACACCTGAGCAAGAGGCCCTCCAAAGCCAAA 193
48 61 ACTTATATGCAATTGGCGCCAGAACCAACACCTGAGCAAGAGGCCCTCCAAAGCCAAA 120
49
50 QY 194 GTTGATGCTGGAAGACTTCTACTATAGTACTCCTGTAACTGACGTGATGATTTGGAATGTT 253
51 121 GTTGATGCTGGAAGACTTCTACTATAGTACTCCTGTAACTGACGTGATGATTTGGAATGTT 180
52
53 QY 254 TCTTTCAATCATCGGCGCATCTCTGTGAGCACTGTGAAATCCAAAGACGGGAACACTCC 313
54 181 TCTTTCAATCATCGGCGCATCTCTGTGAGCACTGTGAAATCCAAAGACGGGAACACTCC 240
55
56 QY 314 AATGACCCCTTACACCAAGTACATTGTGAGGAGCTGGCAGAAAAGTACAAAGCCCAATC 373
57 241 AATGACCCCTTACACCAAGTACATTGTGAGGAGCTGGCAGAAAAGTACAAAGCCCAATC 300
58
59 QY 374 TTGAATCTAGAAGATGGAAGGCCAACATCCATAGAACAATTGTGCGCGGTGTTCAA 433
60 301 TTGAATCTAGAAGATGGAAGGCCAACATCCATAGAACAATTGTGCGCGGTGTTCAA 360
61
62 QY 434 ATGTCCCCCTGA 445
63 361 ATGTCCCCCTGA 372

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US-09-864-761-3463
Sequence 3463, Application US/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
FILE REFERENCE: Aecm1ca-X-1
CURRENT PILING DATE: US/09/864, 761
CURRENT PILING DATE: 2001-05-23
PRIORITY APPLICATION NUMBER: US 60/180,312
PRIORITY PILING DATE: 2000-02-04
PRIORITY APPLICATION NUMBER: US 60/207,456
PRIORITY PILING DATE: 2000-05-26
PRIORITY APPLICATION NUMBER: US 09/632,366
PRIORITY PILING DATE: 2000-08-03
PRIORITY APPLICATION NUMBER: GB 24263,6
PRIORITY PILING DATE: 2000-10-04
PRIORITY APPLICATION NUMBER: US 60/236,359
PRIORITY PILING DATE: 2000-09-27
PRIORITY APPLICATION NUMBER: PCT/US01/00666
PRIORITY PILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00667
PRIORITY PILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00664
PRIORITY PILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00669
PRIORITY PILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00665
PRIORITY PILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00668
PRIORITY PILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00663
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PRIORITY PILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00661
PRIORITY PILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00670
PRIORITY PILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: US 60/234,687
PRIORITY PILING DATE: 2000-09-21
PRIORITY APPLICATION NUMBER: US 09/608,408
PRIORITY PILING DATE: 2000-06-30
PRIORITY APPLICATION NUMBER: US 09/774,203
PRIORITY PILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annonmax Sequence Listing Engine vers. 1.1
SEQ ID NO 3463
LENGTH: 450
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AP000052.1
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.92
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.4
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.2
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.94
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.88
US-09-864-761-3463

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Qy	GAATCAGAAAAAGATCGCTTTCCCTAACTGGTGGCTATTTATTAATTAATTGCA	60
Db	CAATTCAGAAANAGATCCGTTTTCTTAACCTTGTCCTATTTATTTATTAATTGCA	142
Qy	GCAGAGGAGAGAGATGCTCTACTTTATTCGAATTTGACAGACGCTGAGAGACGTCCG	120
Db	GCAGAGGAGAGAGATGCTACTTTATTCGAATTTGACAGACGCTGAGAGACGTCCG	202
Qy	AAGGATTTTATTTATCTTATATGACAAATTGGCGGCAGAACAAACAGCTGAGCAAGGC	180
Db	AAGGATTTTATTTATCTTATATGACAAATTGGCGGCAGAACAAACAGCTGAGCAAGGC	262
Qy	CCCTCAAGCGAAAGTTGATGCTGAGAACCTTCACTATGTCATCTGTACCGCATGGAT	240
Db	CCCTCAAGCGAAAGTTGATGCTGAGAACCTTCACTATGTCATCTGTACCTCATGGAT	322
Qy	GATTGGAATGTTCTCTTTCATCATCGTGGCCATCCTGGTGAGCATGTGAAATCCAGAG	300
Db	GATTGGAATGTTCTCTTTCATCATCGTGGCCATCCTGGTGAGCATGTGAAATCCAGAG	382
Qy	ACGGGAACACTCCATGACCCCTACCAACAGTACATTGTAGAGACTGGCAGGAAAAATA	360
Db	ACGGGAACACTCCATGACCCCTACCAACAGTACATTGTAGAGACTGGCAGGAAAAATA	442
Qy	CAAGAGCC 368	
Db	CAAGAGCC 450	

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RESULT 6
US-09-864-761-20233
Sequence 20233, Application US/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
FILE REFERENCE: Aeomica-X-1
CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
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PRIOR FILING DATE: 2001-01-30
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30

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PRIOR APPLICATION NUMBER: US 60/234,687
 PRIOR FILING DATE: 2000-09-21
 PRIOR APPLICATION NUMBER: US 09/608,408
 PRIOR FILING DATE: 2000-06-30
 PRIOR APPLICATION NUMBER: US 09/774,203
 PRIOR FILING DATE: 2001-01-29
 NUMBER OF SEQ ID NOS: 49117
 SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
 SEQ ID NO: 20233
 LENGTH: 312
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: MAP TO AP000052.1
 OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.1
 OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.1
 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3
 OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.92
 OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.4
 OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
 OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.2
 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.94
 OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.88
 OTHER INFORMATION: EST HUMAN HIT: A1246239.1, EVALUE 0.00e+00
 OTHER INFORMATION: SWISSPROT HIT: Q9Y6U6, EVALUE 3.00e-55
 OTHER INFORMATION: NT HIT: AF302095.1, EVALUE 0.00e+00
 US-09-864-761-20233

Query Match 42.6%; Score 312; DB 9; Length 312;
 Best Local Similarity 100.0%; Pred. No. 2.6e-83;
 Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

127 TTTTATTCTTATATGAGCAATTGGGCGGAGAAACAGCAAGCTGAGCAAGAGCCCTCCA 186
 1 TTTTATTCTTATATGAGCAATTGGGCGGAGAAACAGCAAGCTGAGCAAGAGCCCTCCA 60
 187 AGCAAGTGTGATGCTGAGCACTTCTACTATGTCATCTGTAACCTCATGGTGTATTTGG 246
 61 AGCAAGTGTGATGCTGAGCACTTCTACTATGTCATCTGTAACCTCATGGTGTATTTGG 120
 247 AATGTTCTTTTCATCATCGTGGCCATCTCTGTAGCACTGTGAATTCAGAGCGGGA 306
 121 AATGTTCTTTTCATCATCGTGGCCATCTCTGTAGCACTGTGAATTCAGAGCGGGA 180
 307 AACCTTCATGAGCCCTTACCAACGATGATGTAAGAGACTGGCAGAGAAAGTCAAGAG 366
 181 AACCTTCATGAGCCCTTACCAACGATGATGTAAGAGACTGGCAGAGAAAGTCAAGAG 240
 367 CCAATCTTGAATCTGAGAAATCGAAGGCCACATCCATCGATGAAACATTGGTGGCTGG 426
 241 CCAATCTTGAATCTGAGAAATCGAAGGCCACATCCATCGATGAAACATTGGTGGCTGG 300
 427 GTTCAAAATGTC 438
 301 GTTCAAAATGTC 312
 Db
 RESULT 7
 US-09-864-761-16671
 Sequence 16671, Application US/09864761
 Patent No. US2002048763A1
 GENERAL INFORMATION:
 APPLICANT: Penn, Sharon G.
 APPLICANT: Rank, David R.
 APPLICANT: Hanzel, David K.
 APPLICANT: Chen, Wensheng
 TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
 FILE REFERENCE: Aemica-X-1
 CURRENT APPLICATION NUMBER: US/09/864,761
 PRIOR FILING DATE: 2001-05-23
 PRIOR APPLICATION NUMBER: US 60/180,312

PRIOR FILING DATE: 2000-02-04
 PRIOR APPLICATION NUMBER: US 60/207,456
 PRIOR FILING DATE: 2000-05-26
 PRIOR APPLICATION NUMBER: US 09/632,366
 PRIOR FILING DATE: 2000-08-03
 PRIOR APPLICATION NUMBER: GB 24263.6
 PRIOR FILING DATE: 2000-10-04
 PRIOR APPLICATION NUMBER: US 60/236,359
 PRIOR FILING DATE: 2000-09-27
 PRIOR APPLICATION NUMBER: PCT/US01/00666
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00667
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00664
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00669
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00665
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00668
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00663
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00662
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00661
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00670
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: US 60/234,687
 PRIOR FILING DATE: 2000-09-21
 PRIOR APPLICATION NUMBER: US 09/608,408
 PRIOR FILING DATE: 2000-06-30
 PRIOR APPLICATION NUMBER: US 09/774,203
 PRIOR FILING DATE: 2001-01-29
 SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
 NUMBER OF SEQ ID NOS: 49117
 SEQ ID NO: 16671
 LENGTH: 471
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: MAP TO AP00120.1
 OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.98
 OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 0.67
 US-09-864-761-16671

Query Match 41.8%; Score 306; DB 9; Length 471;
 Best Local Similarity 100.0%; Pred. No. 2.1e-81;
 Matches 306; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 CAAATCCAGAAAGATCCGTTTCTTAACCTTTGGCTATTTATTTAAATTGCA 60
 166 CAAATCCAGAAAGATCCGTTTCTTAACCTTTGGCTATTTATTTAAATTGCA 225
 61 GCAGAGGAGGAGCATGCTACTTTATTCGAATTTACACAGAGCGTGAAGAGCTTCGG 120
 226 GCAGAGGAGGAGCATGCTACTTTATTCGAATTTACACAGAGCGTGAAGAGCTTCGG 285
 121 AAGATTTTATTACTTATATGACAAATTTGGGCGGAGAAACACAGCTGAGCAAGAGC 180
 286 AAGATTTTATTACTTATATGACAAATTTGGGCGGAGAAACACAGCTGAGCAAGAGC 345
 181 CTTCAAGCCAAAGTGAATGCTGAGAACTTTACTATATGTCATCTCTGATCTCATGTAT 240
 346 CTTCAAGCCAAAGTGAATGCTGAGAACTTTACTATATGTCATCTCTGATCTCATGTAT 405
 241 GATTGGAATGTTCTTTTCATCATCGTGGCCATCTGAGCACTGTGAATTCAGAGG 300
 406 GATTGGAATGTTCTTTTCATCATCGTGGCCATCTGAGCACTGTGAATTCAGAGG 465
 301 ACGGGA 306
 Db

Qy 340 AGAGACTGGCAGAAAAGTACACAGCCCAATC 373
Db 252 CGATGCTTGGCAGAGAGGACCAAGCCCTATGTC 285

RESULT 13

```

US-10-260-861-1
Sequence 1, Application US/10260861
Publication No. US20030108924A1
GENERAL INFORMATION:
APPLICANT: George Jr., Alfred L.
APPLICANT: Roden, Dan M
TITLE OF INVENTION: METHOD OF SCREENING FOR SUSCEPTIBILITY TO
TITLE OF INVENTION: DRUG-INDUCED CARDIAC ARRHYTHMIA
FILE REFERENCE: Attorney Docket No. US20030108924A1 1242-33-2
CURRENT APPLICATION NUMBER: US/10/260,861
CURRENT FILING DATE: 2002-09-30
PRIOR APPLICATION NUMBER: 60/158,696
PRIOR FILING DATE: 1999-10-08
NUMBER OF SEQ ID NOS: 11
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 436
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (29)..(418)
PUBLICATION INFORMATION:
JOURNAL: Biochem. Biophys. Res. Commun.
VOLUME: 161
PAGES: 176-181
DATE: May-1989
DATABASE ACCESSION NUMBER: Genbank M26685
DATABASE ENTRY DATE: 1994-03-30
US-10-260-861-1

```

Query Match

Query Match	7.3%	Score 53.2;	DB 14;	Length 436;
Best Local Similarity	63.6%	Pred. No. 1.8e-05;		
Matches 98; Conservative	0;	Mismatches 53;	Indels 3;	Gaps 1;

Qy 223 CCGTGAACCTCAGTATGATATGAAATGTTCTCTTTCATCATCGGCGCATCTGGAG 282

Db 160 CCTCAACGTCTCATGTACTCGGAATCTTGGGCTTTTCAACCCGCGGCATCATGTGAG 219

Qy 283 CACTGGAATCCAAAGAGCGGGAACTCTCCAAATGACCCCAACAACAGTATGTTG---T 339

Db 220 CTACATCCGCTCCAGAGAGCTGGAGCACTCGACAGACCCATTCAACGCTTACATCGAGTC 279

Qy 340 AGAGGACTGGCAGGAAAAAGTATCAAGACCAATC 373

Db 280 CGATGCTCTGCAGAAGAGACAAAGCCCTATGTC 313

RESULT 14
US-10-101-510-498

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Sequence 498, Application US/10101510
Publication No. US20030148295A1
GENERAL INFORMATION:
APPLICANT: WAN, JACKSON
APPLICANT: WAN, YIXIN
TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
FILE REFERENCE: 15117.0012
CURRENT APPLICATION NUMBER: US/10/101,510
CURRENT FILING DATE: 2002-03-20
PRIOR APPLICATION NUMBER: 60/276,947
PRIOR FILING DATE: 2001-03-20
NUMBER OF SEQ ID NOS: 805
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 498
LENGTH: 949
TYPE: DNA

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ORGANISM: Homo sapiens
US-10-101-510-498

Query Match	7.3%;	Score 53.2;	DB 12;	Length 949;
Best Local Similarity	63.6%;	Pred. No. 2.9e-05;		
Matches 98;	Conservative 0;	Mismatches 53;	Indels 3;	Gaps 1;

Dy	223	CCGGAACCCATGGGAGATGATTGGAAATCTCTCTTTCAATCCGTGGCAATCCGTGGAG	282
Db	673	CCCTCAAGCTCATTAGTACTGGAAATCTTCGGGCTTTCTCAACCTGGGGACATCATGTCTGAG	732
Dy	283	CACGTGGAATCCAAAGACGGGAACTCCATCAATGACCCCTACCAACGATACATTTG---T	339
Db	733	CTACATCGGCTCCAAAGAGCTGGAGCACTCGAAGCAATCCCATTAACGTCTACATCAGATC	792
Dy	340	AGAGGACTGGACAGAAAAGTACCAAGGCCAATC	373
Db	793	CGATGCTGGCAAGAGAAAGACACAGGCTTAATGTC	826

RESULT 15

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US-10-424-683-5
/ Sequence 5, Application US/10224683
/ Publication No. US20030162192A1
/ GENERAL INFORMATION:
/ APPLICANT: Sotcos, John
/ APPLICANT: Riehnoff, Jr., Hugh
/ APPLICANT: Guida, Marco
/ APPLICANT: Curran, Mark
/ TITLE OF INVENTION: Polymorphisms Associated with Ion-Channel Diseases
/ FILE REFERENCE: 4389-33
/ CURRENT APPLICATION NUMBER: US/10/224,683
/ CURRENT FILING DATE: 2002-01-06
/ PRIOR APPLICATION NUMBER: 60/314,331
/ PRIOR FILING DATE: 2001-08-20
/ PRIOR APPLICATION NUMBER: 60/378,521
/ PRIOR FILING DATE: 2002-05-06
/ NUMBER OF SEQ ID NOS: 185
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 5
/ LENGTH: 1200
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ US-10-224-683-5

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Query Match

Query Match 7.3%; Score 53.2; DB 12; Length 1200;
Best Local Similarity 63.6%; Pred. No. 3.3e-05;
Matches 98; Conservative 0; Mismatches 53; Indels 3; Gaps 1;

[illegible]

Search completed: October 31, 2003, 05:22:42
Job time : 823.54 secs


```

; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 3139
; LENGTH: 372
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AP000120.1
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.98
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 0.67
; OTHER INFORMATION: EST HUMAN HIT: A165452.1, EVALUE 0.00e+00
; OTHER INFORMATION: SWISSPROT HIT: Q9Y6J6, EVALUE 8.00e-67
; OTHER INFORMATION: NT HIT: g11526220, EVALUE 0.00e+00
; US-09-864-761-33139

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Query Match 88.1%; Score 369; DB 9; Length 372;
Best Local Similarity 100.0%; Pred. No. 1.2e-110;

Matches 369; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 51 ATGTCTACTTATTCATTTTACATTCACAGACGCTGAGAGAGCTTCCGAGAGATTTTATT 110
DB 1 ATGTCTACTTATTCATTTTACATTCACAGACGCTGAGAGAGCTTCCGAGAGATTTTATT 60
QY 111 ACTTATATGACAAATTGGCGCCAGAAACACACAGCTGAGCAAGAGGCCCTCCAGGCCAA 170
DB 61 ACTTATATGACAAATTGGCGCCAGAAACACACAGCTGAGCAAGAGGCCCTCCAGGCCAA 120
QY 171 GTTGATGCTGAGAACTTCTACTATGTCATCTCTGTAAGTGAATGTTG 230
DB 121 GTTGATGCTGAGAACTTCTACTATGTCATCTCTGTAAGTGAATGTTG 180
QY 231 TCTTTATCATCGTGGCCATCTGTGAGCACTGTGAAATCCAAAGAGCGGAAACTCC 290
DB 181 TCTTTATCATCGTGGCCATCTGTGAGCACTGTGAAATCCAAAGAGCGGAAACTCC 240
QY 291 AATGACCCCTACACACAGTACATTTAGAGAGACTGGCAGGAAAGTACACAGCCCAATC 350
DB 241 AATGACCCCTACACACAGTACATTTAGAGAGACTGGCAGGAAAGTACACAGCCCAATC 300
QY 351 TTGAATCTAGAAATATGAAAGGCCCATCATGAGAACTTGTGTGGGTGGTTCAAA 410
DB 301 TTGAATCTAGAAATATGAAAGGCCCATCATGAGAACTTGTGTGGGTGGTTCAAA 360
QY 411 ATGTCCCCC 419
DB 361 ATGTCCCCC 369

```

RESULT 5
US-09-864-761-3463
Sequence 3463, Application US/09864761
Patent No. US20020048763A1

GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng

TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
FILE REFERENCE: Aecm1ca-X-1
CURRENT FILING DATE: 2001-05-23
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 3463
LENGTH: 450
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AP000052.1
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.92
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.4
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.2
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.94
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.88
US-09-864-761-3463

Query Match 82.3%; Score 345; DB 9; Length 450;
Best Local Similarity 100.0%; Pred. No. 1e-102;
Matches 345; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTAACCTTGTGCTTATTTTATTTAAATTCAGCAGAGGAGGAGATGCTCTT 60
 Db 106 CCTAACCTTGTGCTTATTTTATTTAAATTCAGCAGAGGAGGAGATGCTCTT 165
 QY 61 TATTCATTTTCACACAGACCTGGAACGCTCTCCAGAGATTTTATTAATTTGG 120
 Db 166 TATTCATTTTCACACAGACCTGGAACGCTCTCCAGAGATTTTATTAATTTGG 225
 QY 121 ACAATTTGGCCGCAACACACAGCTGAGCAGAGGCGCTCCAGCCAAAGTTGATCTG 180
 Db 226 ACAATTTGGCCGCAACACACAGCTGAGCAGAGGCGCTCCAGCCAAAGTTGATCTG 265
 QY 181 AGAATCTTCACTATGTCATCTGCTGACTCATGCTGATGATGGAATGCTCTTTCATCA 240
 Db 286 AGAATCTTCACTATGTCATCTGCTGACTCATGCTGATGATGGAATGCTCTTTCATCA 345
 QY 241 TCGTGGCCATCTGCTGATGACATCTGTAAATTCAGAGAGGGAACATCTCCATGACCCCT 300
 Db 346 TCGTGGCCATCTGCTGATGACATCTGTAAATTCAGAGAGGGAACATCTCCATGACCCCT 405
 QY 301 ACCACGATGATGATGATGAGAGCTGAGAGGAAAGTACAGAGCC 345
 Db 406 ACCACGATGATGATGATGAGAGCTGAGAGGAAAGTACAGAGCC 450

RESULT 6
 US-09-864-761-20233
 ; Sequence 20233, Application US/09864761
 ; Patient No. US20020048763A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Penn, Sharon G.
 ; APPLICANT: Rank, David R.
 ; APPLICANT: Hanzel, David K.
 ; APPLICANT: Chen, Wensheng
 ; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
 ; FILE REFERENCE: Aeonica-X-1
 ; CURRENT APPLICATION NUMBER: US/09/864,761
 ; PRIOR FILING DATE: 2001-05-23
 ; PRIOR APPLICATION NUMBER: US 60/180,312
 ; PRIOR FILING DATE: 2000-02-04
 ; PRIOR APPLICATION NUMBER: US 60/207,456
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: US 09/632,366
 ; PRIOR FILING DATE: 2000-08-03
 ; PRIOR APPLICATION NUMBER: GB 24263,6
 ; PRIOR FILING DATE: 2000-10-04
 ; PRIOR APPLICATION NUMBER: US 60/236,359
 ; PRIOR FILING DATE: 2000-09-27
 ; PRIOR APPLICATION NUMBER: PCT/US01/00666
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00667
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00664
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00669
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00665
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00668
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00663
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00662
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00661
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00670
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: US 60/234,687
 ; PRIOR FILING DATE: 2000-09-21
 ; PRIOR APPLICATION NUMBER: US 09/608,408

; PRIOR FILING DATE: 2000-06-30
 ; PRIOR APPLICATION NUMBER: US 09/774,203
 ; PRIOR FILING DATE: 2001-01-29
 ; NUMBER OF SEQ ID NOS: 49117
 ; SOFTWARE: Annonmax Sequence Listing Engine vers. 1.1
 ; SEQ ID NO 20233
 ; LENGTH: 312
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; OTHER INFORMATION: MAP TO AP000052.1
 ; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.1
 ; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.1
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3
 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.92
 ; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.4
 ; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
 ; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.2
 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.94
 ; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.88
 ; OTHER INFORMATION: EST HUMAN HIT: A1246239.1, EVALU 0.00e+00
 ; OTHER INFORMATION: SWISSPROT HIT: Q9Y606, EVALU 3.00e-55
 ; OTHER INFORMATION: NT HIT: AF302095.1, EVALU 0.00e+00
 ; US-09-864-761-20233

Query Match 74.5%; Score 312; DB 9; Length 312;
 Best Local Similarity 100.0%; Pred. No. 5.6e-92;
 Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 104 TTTTATTTCTTATATGAGCAATTTGGCCAGAACACACAGCTGAGCAAGGCGCTCCA 163
 Db 1 TTTTATTTCTTATATGAGCAATTTGGCCAGAACACACAGCTGAGCAAGGCGCTCCA 60
 QY 164 AGCCAAAGTGAATGCTGAGAACTTCTATATGCTATCTGATCTGATGATTTGG 223
 Db 61 AGCCAAAGTGAATGCTGAGAACTTCTATATGCTATCTGATCTGATGATTTGG 120
 QY 224 AATGTTCTCTTTCATCATGCTGCGCATCTCTGTGAGACACTGTGAATTCAGAGCGGA 283
 Db 121 AATGTTCTCTTTCATCATGCTGCGCATCTCTGTGAGACACTGTGAATTCAGAGCGGA 180
 QY 284 ACACTCAATGACCCCTACACAGTACTTGTAGAGACTGCGAGAGAAAGTACAAGAG 343
 Db 181 ACACTCAATGACCCCTACACAGTACTTGTAGAGACTGCGAGAGAAAGTACAAGAG 240
 QY 344 CCAATCTTGAATCTGAAGAAATCCAGGCCACATCCATGAGAAATTTGTCGGCTGG 403
 Db 241 CCAATCTTGAATCTGAAGAAATCCAGGCCACATCCATGAGAAATTTGTCGGCTGG 300
 QY 404 GTTCAAAATGTC 415
 Db 301 GTTCAAAATGTC 312

RESULT 7
 US-09-864-761-16671
 ; Sequence 16671, Application US/09864761
 ; Patient No. US20020048763A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Penn, Sharon G.
 ; APPLICANT: Rank, David R.
 ; APPLICANT: Hanzel, David K.
 ; APPLICANT: Chen, Wensheng
 ; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
 ; FILE REFERENCE: Aeonica-X-1
 ; CURRENT APPLICATION NUMBER: US/09/864,761
 ; PRIOR FILING DATE: 2001-05-23
 ; PRIOR APPLICATION NUMBER: US 60/180,312
 ; PRIOR FILING DATE: 2000-02-04
 ; PRIOR APPLICATION NUMBER: US 60/207,456
 ; PRIOR FILING DATE: 2000-05-26

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1 PRIOR APPLICATION NUMBER: US 09/6532,366
2 PRIOR FILING DATE: 2000-08-03
3 PRIOR APPLICATION NUMBER: GB 24263,6
4 PRIOR FILING DATE: 2000-10-04
5 PRIOR APPLICATION NUMBER: US 60/236,359
6 PRIOR FILING DATE: 2000-09-27
7 PRIOR APPLICATION NUMBER: PCT/US01/00666
8 PRIOR FILING DATE: 2001-01-30
9 PRIOR APPLICATION NUMBER: PCT/US01/00667
10 PRIOR FILING DATE: 2001-01-30
11 PRIOR APPLICATION NUMBER: PCT/US01/00664
12 PRIOR FILING DATE: 2001-01-30
13 PRIOR APPLICATION NUMBER: PCT/US01/00669
14 PRIOR FILING DATE: 2001-01-30
15 PRIOR APPLICATION NUMBER: PCT/US01/00665
16 PRIOR FILING DATE: 2001-01-30
17 PRIOR APPLICATION NUMBER: PCT/US01/00668
18 PRIOR FILING DATE: 2001-01-30
19 PRIOR APPLICATION NUMBER: PCT/US01/00663
20 PRIOR FILING DATE: 2001-01-30
21 PRIOR APPLICATION NUMBER: PCT/US01/00662
22 PRIOR FILING DATE: 2001-01-30
23 PRIOR APPLICATION NUMBER: PCT/US01/00661
24 PRIOR FILING DATE: 2001-01-30
25 PRIOR APPLICATION NUMBER: PCT/US01/00670
26 PRIOR FILING DATE: 2001-01-30
27 PRIOR APPLICATION NUMBER: US 61/234,687
28 PRIOR FILING DATE: 2000-09-21
29 PRIOR APPLICATION NUMBER: US 09/608,408
30 PRIOR FILING DATE: 2000-06-30
31 PRIOR APPLICATION NUMBER: US 09/774,203
32 PRIOR FILING DATE: 2001-01-29
33 NUMBER OF SEQ ID NOS: 49117
34 SOFTWARE: Annonmax Sequence Listing Engine vers. 1.1
35 SEQ ID NO 16671
36 LENGTH: 471
37 TYPE: DNA
38 ORGANISM: Homo sapiens
39 FEATURE:
40 OTHER INFORMATION: MAP TO AP000120.1
41 OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.98
42 OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 0.67
43 US-09-864-761-16671

```


US-10-224-683-5

Query Match 12.7%; Score 53.2; DB 12; Length 1200;
Best Local Similarity 63.6%; Pred. No. 1.1e-06;
Matches 98; Conservative 0; Mismatches 53; Indels 3; Gaps 1;

QY 200 CCGTACCTCAGTGAATGATGGAATGTTCTTTTCATCATCGTGCCATCTGTGTAG 259
DB 550 CCTCTACGCTCTCATGTGACTGAGATTCTTCGAGCTTCTTCACTGGGCAATCATGTGAG 609

QY 260 CACTGTGAATCCAGAGACGGGAACATCCATGACCCCTACCAACCAATGATG---T 316
DB 610 CTACATCCGCTCCAGAGCTGAGCACTGAGACACCCATCAACGTTACATGAGTC 669

QY 317 AGAGACTGCGAGAAAGTACAGACCAATC 350
DB 670 CGATGCTGCGAGAGAGACAGAGGCTATGTC 703

RESULT 15

US-10-368-643-3
; Sequence 3, Application US/10368643
; Publication No. US20030170708A1

; GENERAL INFORMATION:
; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.
; APPLICANT: Curran, Mark E.
; APPLICANT: Landes, Gregory M.
; APPLICANT: Connors, Timothy D.
; APPLICANT: Burn, Timothy C.
; APPLICANT: Spławski, Igor
; TITLE OF INVENTION: KVLQ1 - A LONG QT SYNDROME GENE
; FILE REFERENCE: 2323-163
; CURRENT APPLICATION NUMBER: US/10/368,643
; PENDING FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: US 09/597,731
; PRIOR FILING DATE: 2000-06-19
; PRIOR APPLICATION NUMBER: US 09/135,010
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: US 60/094,477
; PRIOR FILING DATE: 1998-07-29
; PRIOR APPLICATION NUMBER: US 08/921,068
; PRIOR FILING DATE: 1997-08-29
; PRIOR APPLICATION NUMBER: US 08/739,363
; PRIOR FILING DATE: 1996-10-29
; PRIOR APPLICATION NUMBER: US 60/019,014
; PRIOR FILING DATE: 1995-12-22
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3

; LENGTH: 1703
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (193)..(579)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1703)
; OTHER INFORMATION: n may be any base
US-10-368-643-3

Query Match 12.7%; Score 53.2; DB 12; Length 1703;
Best Local Similarity 63.6%; Pred. No. 1.4e-06;
Matches 98; Conservative 0; Mismatches 53; Indels 3; Gaps 1;

QY 200 CCGTACCTCAGTGAATGATGGAATGTTCTTTTCATCATCGTGCCATCTGTGTAG 259
DB 324 CCTCTACGCTCTCATGTGACTGAGATTCTTCGAGCTTCTTCACTGGGCAATCATGTGAG 383

QY 260 CACTGTGAATCCAGAGACGGGAACATCCATGACCCCTACCAACCAATGATG---T 316
DB 384 CTACATCCGCTCCAGAGCTGAGCACTGAGACCAATCAACGTTACATGAGTC 443

QY 317 AGAGACTGCGAGAAAGTACAGACCAATC 350
DB 444 CGATGCTGCGAGAGAGAGAGGCTATGTC 477

Search completed: October 31, 2003, 05:22:44
Job time: 468.46 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 31, 2003, 02:39:38 ; Search time 30.9427 Seconds
(without alignments)
5976.847 Million cell updates/sec

Title: US-09-550-163-1_COPY_24_442

Perfect score: 419
Sequence: 1 cctaactgttcgcctatt.....ctgggtccaatgtccccc 419

Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database:

1: Issued Patents_NA:*
2: /cgn2_6/prodata/2/ina/5A_COMB.seq:*
3: /cgn2_6/prodata/2/ina/5B_COMB.seq:*
4: /cgn2_6/prodata/2/ina/6A_COMB.seq:*
5: /cgn2_6/prodata/2/ina/6B_COMB.seq:*
6: /cgn2_6/prodata/2/ina/6C_COMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	53.2	12.7	398	1 US-08-118-101A-5	Sequence 5, Appl1
2	53.2	12.7	436	4 US-09-679-185-1	Sequence 1, Appl1
3	53.2	12.7	1703	3 US-09-135-021-77	Sequence 77, Appl1
4	53.2	12.7	1703	3 US-09-135-020-3	Sequence 3, Appl1
5	53.2	12.7	1703	3 US-09-135-010A-3	Sequence 3, Appl1
6	53.2	12.7	1703	4 US-09-444-871-3	Sequence 3, Appl1
7	53.2	12.7	1703	4 US-09-597-735-3	Sequence 3, Appl1
8	53.2	12.7	1703	4 US-09-444-295-3	Sequence 3, Appl1
9	53.2	12.7	1703	4 US-09-597-732-3	Sequence 3, Appl1
10	53.2	12.7	1703	4 US-09-597-731-3	Sequence 3, Appl1
11	51.6	12.3	436	4 US-09-679-185-3	Sequence 3, Appl1
12	36.6	8.7	2652	1 US-08-318-831-1	Sequence 1, Appl1
13	36	8.6	1335	4 US-09-016-434-1360	Sequence 1360, Ap
14	36	8.6	1380	1 US-08-110-286A-1	Sequence 1, Appl1
15	36	8.6	1495	4 US-08-482-746-1	Sequence 1, Appl1
16	36	8.6	1495	4 US-09-380-734-1	Sequence 1, Appl1
17	36	8.6	1495	4 US-08-374-009-1	Sequence 1, Appl1
18	36	8.6	1582	4 US-08-482-746-14	Sequence 14, Appl1
19	36	8.6	1582	4 US-09-580-734-14	Sequence 14, Appl1
20	36	8.6	1582	4 US-08-374-009-14	Sequence 14, Appl1
21	33.6	8.0	645	4 US-09-069-896-2	Sequence 2, Appl1
22	33.6	8.0	645	4 US-09-471-468-2	Sequence 2, Appl1
23	33.4	8.0	4104	4 US-09-996-243-277	Sequence 277, App
24	33	7.9	606	4 US-09-328-111-133	Sequence 133, App
25	33	7.9	2912	4 US-09-307-143-3	Sequence 3, Appl1
26	32.4	7.7	837	3 US-08-998-416-303	Sequence 303, App
27	32.4	7.7	4659	4 US-09-221-017B-823	Sequence 823, App

C 28	31.6	7.5	1664976	4	US-08-916-421B-1	Sequence 1, Appl1
C 29	31.2	7.4	2450	4	US-09-620-312D-336	Sequence 336, App
C 30	31.2	7.4	2513	4	US-09-620-312D-337	Sequence 337, App
C 31	31	7.4	2049	4	US-09-252-991A-6426	Sequence 6426, Ap
C 32	30.8	7.4	7489	4	US-09-674-677-5	Sequence 5, Appl1
C 33	30.6	7.3	744	3	US-08-969-644-17	Sequence 17, Appl1
C 34	30.6	7.3	744	3	US-08-444-189-17	Sequence 17, Appl1
C 35	30.6	7.3	744	3	US-08-468-544-17	Sequence 17, Appl1
C 36	30.6	7.3	1053	4	US-09-996-243-254	Sequence 254, App
C 37	30.6	7.3	1076	4	US-09-996-243-252	Sequence 252, App
C 38	30.6	7.3	6822	4	US-09-426-998-3	Sequence 3, Appl1
C 39	30.6	7.3	7502	3	US-08-969-644-6	Sequence 6, Appl1
C 40	30.6	7.3	7502	3	US-08-444-189-6	Sequence 6, Appl1
C 41	30.6	7.3	7502	3	US-08-468-544-6	Sequence 6, Appl1
C 42	30.6	7.3	7741	4	US-09-426-998-4	Sequence 4, Appl1
C 43	30.4	7.3	498	4	US-09-252-991A-2063	Sequence 2063, Ap
C 44	30.4	7.3	1047	4	US-09-252-991A-16195	Sequence 16195, A
C 45	30.4	7.3	1317	4	US-09-252-991A-2139	Sequence 2139, Ap

ALIGNMENTS

RESULT 1
US-08-118-101A-5

; Sequence 5, Application US/08118101A

; Patent No. 5620892

; GENERAL INFORMATION:

; APPLICANT: Knitz, Stephen E.
; APPLICANT: Knickerbocker, Aron M.
; APPLICANT: McCullough, John R.

; TITLE OF INVENTION: A STRAIN OF SACCAROMYCES CEREVISIAE
; TITLE OF INVENTION: EXPRESSING THE GENE ENCODING POTASSIUM TRANSPORTER MINK

; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:

; ADDRESSER: Burton Rodney
; STREET: P.O. Box 4000

; CITY: Princeton
; STATE: New Jersey
; COUNTRY: U.S.A.

; ZIP: 08543-4000
; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/118.101A
; FILING DATE:

; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:

; NAME: Gaul, Timothy J.
; REGISTRATION NUMBER: 33,111

; REFERENCE/DOCKET NUMBER: DC27
; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (609) 252-5901
; TELEFAX: (609) 252-4526

; INFORMATION FOR SEQ ID NO: 5:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 398 base pairs
; TYPE: nucleic acid

; STRANDEDNESS: single
; TOPOLOGY: linear

; MOLECULE TYPE: CDNA
; FEATURE:

; NAME/KEY: CDS
; LOCATION: 1..398

Query Match 12.7%; Score 53.2; DB 1; Length 398;
Best Local Similarity 63.6%; Pred. No. 3.2e-08;
Matches 98; Conservative 0; Mismatches 53; Indels 3; Gaps 1;

Oy 200 CCGTACCTCATAGTATGATGAAATGTTCTTTTCAATCATCGAGGCATCCGGAG 255
 Db 141 CCTTACGTCTCATGTAAGTACGGAAATCTTGGCTTTCTTACCCCTGGGCATCATGCTGAG 200
 Oy 260 CACTGTGAATTCGAAGGAGACGGGAACACTCCATGACCCCTACACCAAGTACATTG---T 316
 Db 201 CTACATTCGGTCCAGAGAGCTGGAGCACTCGAAGCAACCCATTCACAGCTCTACATGAGTC 260
 Oy 317 AGAGACTGGCAGAAAGTATCAAGAGCCAAATC 350
 Db 261 CGATGCTGGCAGAGAGAGCAAGGCTTATGTC 294

RESULT 2
US-09-679-185-1

% Patent No. 6458542
% GENERAL INFORMATION:
% APPLICANT: George Jr., Alfred L.
% APPLICANT: Roden, Dan M
% TITLE OF INVENTION: METHOD OF SCREENING FOR SUSCEPTIBILITY TO
% TITLE OF INVENTION: DRUG-INDUCED CARDIAC ARRYTHMIA
% FILE REFERENCE: Attorney Docket No. 6458542 1242-33-2
% CURRENT APPLICATION NUMBER: US/09/679,185
% CURRENT FILING DATE: 2000-10-04
% PRIOR APPLICATION NUMBER: 60/158,696
% PRIOR FILING DATE: 1999-10-08
% NUMBER OF SEQ ID NOS: 11
% SOFTWARE: PatentIn Ver. 2.0
% SEQ ID NO 1
% LENGTH: 436
% TYPE: DNA
% ORGANISM: Homo sapiens
% FEATURE:
% NAME/KEY: CDS
% LOCATION: (29)..(418)
% PUBLICATION INFORMATION:
% JOURNAL: Biochem. Biophys. Res. Commun.
% VOLUME: 161
% PAGES: 176-181
% DATE: MAY-1989
% DATABASE ACCESSION NUMBER: GenBank M26685
% DATABASE ENTRY DATE: 1994-03-30
% US-09-679-185-1

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Query	12.7%	63.6%	53.2	DB 4	436
Best Local			3.4e-08		
Matches	98	Conservative	0	Mismatches	53
				Indels	3
				Gaps	1
Qy	200	CCTGTACCTCATGTGATGATTTGGATGTTCTTTTCATTCATCGTGCCATCTGTGTAG	259		
Db	160	CCTGTACCTCATGTGATGATTTGGATGTTCTTTTCATTCATCGTGCCATCTGTGTAG	219		
Qy	260	CAGTGTGAATTCGAAGACGGGAAACCTCCAAATGACCCCTAACCAAGTACATTTG	316		
Db	220	CTACATCCGCTTCGAAGACGTGAGACACTCGAACCAACCATTTCAAGTCTACATGAGTC	279		
Qy	317	AGAGGACTGGCAGGAAAGTCAAGAGCAATC	350		
Db	280	CGATGCCCTGGCAAGAAAGAAAGAGCCCTATATC	313		

RESULT 3
US-09-135-021-77
Sequence 77, Application US/09135021A

: GENERAL INFORMATION:
 : APPLICANT: Splawski, Igor
 : APPLICANT: Keating, Mark T.
 : TITLE OF INVENTION: A HOMOCYGOUS MUTATION IN RPLQ1 WHICH CAUSES JERVELL
 : TITLE OF INVENTION: AND LANGE-NIELSEN SYNDROME
 : FILE REFERENCE: 2223-128
 : CURRENT APPLICATION NUMBER: US/09/135,021A

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: CURRENT FILING DATE: 1998-08-17
: EARLIER APPLICATION NUMBER: 08/874,655
: EARLIER FILING DATE: 1997-06-13
: EARLIER APPLICATION NUMBER: 60/094,477
: EARLIER FILING DATE: 1998-07-29
: NUMBER OF SEQ ID NOS: 80
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 77

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LOCATION: (193) .. (579)
US-09-135-021-77

Query Match	12.7%	Score 53.2	DB 3	Length 1703
Best Local Similarity	63.6%	Pred. No. 7.6e-08		
Matches 98	Conservative 0	Mismatches 53	Indels 3	Gaps 1

Oy 200 CCGTATCCCATGAGGATGATTTGAAATGTCCTTTATCATCGGGCATCCGGAG 259
 Db 324 CCTTACGCTCCATGATGTACTGGGATTTTGCGCTTCTTACCTCGGACATAGCTGAG 383
 Oy 260 CACTGGAATCCAGAGAGGGGAACACTCCATGAGCCCTACCAAGTACATGG---T 316
 Db 384 CTACATCCGCTCCAGAAAGCTGGAGCACTCGAAGACCATTCAAGCTTACATCGAGTC 443
 Oy 317 AGAGACTGGACGAAAAAGTACAAGAGCAATC 350
 Db 444 CGATGCTTGGCAAGAAAGACAAAGGCTTAGTTC 477

RESULT 4
US-09-135-020-3

```

/ Patent No.: 5274332
/ GENERAL INFORMATION:
/ APPLICANT: Keating, Mark T.
/ APPLICANT: Sanguinetti, Michael C.
/ APPLICANT: Splawski, Igor
/ TITLE OF INVENTION: MUTATIONS IN THE KCNE1 GENE ENCODING HUMAN MINK WHICH
/ TITLE OF INVENTION: CAUSE ARRHYTHMIA SUSCEPTIBILITY THEREBY ESTABLISHING
/ TITLE OF INVENTION: KCNE1 AS AN IQT GENE
/ FILE REFERENCE: 2323-131
/ CURRENT APPLICATION NUMBER: US/09/135,020
/ CURRENT FILING DATE: 1998-08-17
/ EARLIER APPLICATION NUMBER: 08/921,068
/ EARLIER FILING DATE: 1997-08-29
/ EARLIER APPLICATION NUMBER: 08/739,383
/ EARLIER FILING DATE: 1996-10-29
/ EARLIER APPLICATION NUMBER: 60/019,014
/ EARLIER FILING DATE: 1995-12-22
/ EARLIER APPLICATION NUMBER: 60/094,477
/ EARLIER FILING DATE: 1998-07-29
/ NUMBER OF SEQ ID NOS: 114
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 3
/ LENGTH: 1703
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (193)..(579)
/ IS-09-135-020-3

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Query Match	12.7%	Score 53.2;	DB 3;	Length 1703;
Best Local Similarity	65.6%	Pred. No. 7,6e-08;		
Matches	98;	Conservative	0;	Mismatches 53; Indels 3; Gaps 1
OY	200	CCTGTAACCTCATAGGATGATGATGAAATGTTCTTTTCAATCATTCGTGGCCATCCTCGTGAG		259
Db	324	CCTTAAGCTCCATCAGGACTGGAGATTTCTTGAGCTTCTTCAACCTGGAGCATCATAGTCGAG		383

QY 260 CACTGTGAATCCAGAGACGGGAACTCCATGACCCCTACACCACTACATTG---T 316
 DB 384 CTACATCCGCTCCAGAGAGTGGAGACTGAGACGCCATTCATGCTACATCGAGTC 443
 QY 317 AGAGACTGGCAGGAAAGTACAGAGCCCAATC 350
 DB 444 CGATGCTGGCAAGAGAGCAAGGCGCTATGTC 477

RESULT 5

US-09-135-010A-3
 ; Sequence 3, Application US/09135010A
 ; Patent No. 6277978

GENERAL INFORMATION:

APPLICANT: Keating, Mark T.
 APPLICANT: Sanguinetti, Michael C.
 APPLICANT: Curran, Mark E.
 APPLICANT: Landes, Gregory M.
 APPLICANT: Connors, Timothy D.
 APPLICANT: Burn, Timothy C.
 APPLICANT: Splawski, Igor
 TITLE OF INVENTION: KVLQ1 - A LONG QT SYNDROME GENE
 FILE REFERENCE: 2323-133
 CURRENT APPLICATION NUMBER: US/09135,010A
 CURRENT FILING DATE: 1998-08-17
 PRIOR APPLICATION NUMBER: 60/094,477
 PRIOR FILING DATE: 1998-07-29
 PRIOR APPLICATION NUMBER: 08/921,068
 PRIOR FILING DATE: 1997-08-29
 PRIOR APPLICATION NUMBER: 08/739,383
 PRIOR FILING DATE: 1996-10-29
 PRIOR APPLICATION NUMBER: 60/019,014
 PRIOR FILING DATE: 1995-12-22
 NUMBER OF SEQ ID NOS: 116
 SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3

LENGTH: 1703

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (193)..(579)

US-09-135-010A-3

Query Match 12.7%; Score 53.2; DB 3; Length 1703;
 Best Local Similarity 63.6%; Pred. No. 7, 6e-08;

Matches 98; Conservative 0; Mismatches 53; Indels 3; Gaps 1;

QY 200 CCTGTACTCATGTGATGATGATGTTCTTTTCATCATGCGGCCATCCTGTGAG 259
 DB 324 CCTTACGCTCTCATGTGATGATGTTCTTTTCATCATGCGGCCATCCTGTGAG 383
 QY 260 CACTGTGAATCCAGAGACGGGAACTCCATGACCCCTACACCACTACATTG---T 316
 DB 384 CTACATCCGCTCCAGAGAGTGGAGACTGAGACGCCATTCATGCTACATCGAGTC 443
 QY 317 AGAGACTGGCAGGAAAGTACAGAGCCCAATC 350
 DB 444 CGATGCTGGCAAGAGAGCAAGGCGCTATGTC 477

RESULT 6

US-09-444-871-3
 ; Sequence 3, Application US/09444871
 ; Patent No. 6323026

GENERAL INFORMATION:

APPLICANT: Keating, Mark T.
 APPLICANT: Sanguinetti, Michael C.
 APPLICANT: Splawski, Igor
 TITLE OF INVENTION: MUTATIONS IN THE KCNE1 GENE ENCODING HUMAN MINK WHICH
 TITLE OF INVENTION: CAUSE ARRHYTHMIA SUSCEPTIBILITY THEREBY ESTABLISHING
 TITLE OF INVENTION: KCNE1 AS AN IQT GENE

FILE REFERENCE: 2323-131
 CURRENT APPLICATION NUMBER: US/09/444,871
 CURRENT FILING DATE: 1999-11-22
 EARLIER APPLICATION NUMBER: US 09/135,020
 EARLIER FILING DATE: 1998-08-17
 EARLIER APPLICATION NUMBER: 08/921,068
 EARLIER FILING DATE: 1997-08-29
 EARLIER APPLICATION NUMBER: 08/739,383
 EARLIER FILING DATE: 1996-10-29
 EARLIER APPLICATION NUMBER: 60/019,014
 EARLIER FILING DATE: 1995-12-22
 EARLIER APPLICATION NUMBER: 60/094,477
 EARLIER FILING DATE: 1998-07-29
 NUMBER OF SEQ ID NOS: 114
 SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3

LENGTH: 1703

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (193)..(579)

US-09-444-871-3

Query Match 12.7%; Score 53.2; DB 4; Length 1703;
 Best Local Similarity 63.6%; Pred. No. 7, 6e-08;

Matches 98; Conservative 0; Mismatches 53; Indels 3; Gaps 1;

QY 200 CCTGTACTCATGTGATGATGATGTTCTTTTCATCATGCGGCCATCCTGTGAG 259
 DB 324 CCTTACGCTCTCATGTGATGATGTTCTTTTCATCATGCGGCCATCCTGTGAG 383
 QY 260 CACTGTGAATCCAGAGACGGGAACTCCATGACCCCTACACCACTACATTG---T 316
 DB 384 CTACATCCGCTCCAGAGAGTGGAGACTGAGACGCCATTCATGCTACATCGAGTC 443
 QY 317 AGAGACTGGCAGGAAAGTACAGAGCCCAATC 350
 DB 444 CGATGCTGGCAAGAGAGCAAGGCGCTATGTC 477

RESULT 7

US-09-597-735-3
 ; Sequence 3, Application US/09597735
 ; Patent No. 6420124

GENERAL INFORMATION:

APPLICANT: Keating, Mark T.
 APPLICANT: Sanguinetti, Michael C.
 APPLICANT: Curran, Mark E.
 APPLICANT: Landes, Gregory M.
 APPLICANT: Connors, Timothy D.
 APPLICANT: Burn, Timothy C.
 APPLICANT: Splawski, Igor
 TITLE OF INVENTION: KVLQ1 - A LONG QT SYNDROME GENE
 FILE REFERENCE: 2323-133
 CURRENT APPLICATION NUMBER: US/09/597,735
 CURRENT FILING DATE: 2000-06-19
 EARLIER APPLICATION NUMBER: 09/135,010
 EARLIER FILING DATE: 1998-08-17
 EARLIER APPLICATION NUMBER: 60/094,477
 EARLIER FILING DATE: 1998-07-29
 EARLIER APPLICATION NUMBER: 08/921,068
 EARLIER FILING DATE: 1997-08-29
 EARLIER APPLICATION NUMBER: 08/739,383
 EARLIER FILING DATE: 1996-10-29
 EARLIER APPLICATION NUMBER: 60/019,014
 EARLIER FILING DATE: 1995-12-22
 NUMBER OF SEQ ID NOS: 116
 SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3

LENGTH: 1703

TYPE: DNA

ORGANISM: Homo sapiens

Db 2522 TGGATTTCCTCTTCAGTATGCTTC 2548

RESULT 13

US-09-016-434-1360
Sequence 1360, Application US/09016434
Patent No. 6500938

GENERAL INFORMATION:

APPLICANT: Janice Au-Young
APPLICANT: Jeffrey J. Seilhamer
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
TITLE OF INVENTION: PATHWAY GENE EXPRESSION
NUMBER OF SEQUENCES: 1490
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 PORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/016,434
FILING DATE: HEREMITH
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:

NAME: Zeller, Karen J.

REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0002 US

TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555

TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 1360:

SEQUENCE CHARACTERISTICS:

LENGTH: 1335 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear

IMMEDIATE SOURCE:
LIBRARY: GENBANK

CLONE: 9408691
US-09-016-434-1360

Query Match

Best Local Similarity 8.6%; Score 36; DB 4; Length 1335;
Pred. No. 0.044; Mismatches 70; Indels 0; Gaps 0;

Matches 78; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

165 GCCAAGTGTGAGTCTGAGACTTCTATGTCATCTGATCTGATCTGATGATGGA 224

868 GCGAAGGCGCTGGGGGTACACGACTACATCTACAGGGCCCGATGATCTGCTCG 927

225 ATGTTCTCTTTCATCATCTGTCGCATCTGTCGAGCACTGTGAATCCAGAGCGGAA 284

928 CTGATCAATTTCACTCTCTTTTCAACATGTCGCGATCTCTATGACCAAGCTCCGGCA 987

285 CACTCCATGACCCCTACACGAGTACA 312

988 TCACCACTGTCGAGACCATTCAGTACA 1015

RESULT 14

US-08-110-286A-1
Sequence 1, Application US/08110286A
Patent No. 5728545

GENERAL INFORMATION:

APPLICANT: Perrin, Marilyn H.
APPLICANT: Chen, Ruoping
APPLICANT: Lewis, Kathy A.
APPLICANT: Vale Jr., Wyle W.
APPLICANT: Donaldson, Cynthia J.
TITLE OF INVENTION: CLONING AND RECOMBINANT PRODUCTION OF
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
STREET: 444 South Flower Street, Suite 2000
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/110,286A
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/079,320
FILING DATE: 18-JUN-1993

ATTORNEY/AGENT INFORMATION:

NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P41 9439

TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-546-4737

TELEFAX: 619-546-9392
INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 1380 base pairs
TYPE: nucleic acid

STRANDEDNESS: both
TOPOLOGY: both

MOLECULE TYPE: CDNA
FEATURE:

NAME/KEY: CDS
LOCATION: 82..1329

OTHER INFORMATION: /product= "HUMAN PITUITARY
CRF-RECEPTOR"

OTHER INFORMATION: /note= "This sequence is encoded by clone
"CRF-R1". "

US-08-110-286A-1

Query Match

Best Local Similarity 8.6%; Score 36; DB 1; Length 1380;
Pred. No. 0.045; Mismatches 70; Indels 0; Gaps 0;

Matches 78; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

165 GCCAAGTGTGAGTCTGAGACTTCTATGTCATCTGATCTGATCTGATGATGGA 224

862 GCGAAGGCGCTGGGGGTACACGACTACATCTACAGGGCCCGATGATCTGCTCG 921

225 ATGTTCTCTTTCATCATCTGTCGCATCTGTCGAGCACTGTGAATCCAGAGCGGAA 284

922 CTGATCAATTTCACTCTCTTTTCAACATGTCGCGATCTCTATGACCAAGCTCCGGCA 981

285 CACTCCATGACCCCTACACGAGTACA 312

982 TCACCACTGTCGAGACCATTCAGTACA 1009

RESULT 15

US-08-482-746-1
Sequence 1, Application US/08482746B
Patent No. 6399315
GENERAL INFORMATION:

```
; APPLICANT: Perrin, Marilyn H.
; APPLICANT: Chen, Ruoping
; APPLICANT: Lewis, Kathy A.
; APPLICANT: Vale Jr., Wylie W.
; APPLICANT: Donaldson, Cynthia J.
; APPLICANT: Sawchenko, Paul
; TITLE OF INVENTION: Cloning and Recombinant Production of
; TITLE OF INVENTION: CRF Receptor(s)
; FILE REFERENCE: P41-90002
; CURRENT APPLICATION NUMBER: US/08/482,746B
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: US 08/374,009
; EARLIER FILING DATE: 1995-01-17
; EARLIER APPLICATION NUMBER: US 08/353,537
; EARLIER FILING DATE: 1994-12-09
; EARLIER APPLICATION NUMBER: PCT/US94/05908
; EARLIER FILING DATE: 1994-05-25
; EARLIER APPLICATION NUMBER: US 08/110,286
; EARLIER FILING DATE: 1993-08-23
; EARLIER APPLICATION NUMBER: US 08/079,320
; EARLIER FILING DATE: 1993-06-18
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1495
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (82)...(1326)
; OTHER INFORMATION: /product = "Human pituitary CRF-receptor"
; OTHER INFORMATION: /note = "This sequence is encoded by clone
; OTHER INFORMATION: "CRF-R1".
US-08-482-746-1
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Best Local Similarity 52.7%; Pred. No. 0.047;
Matches 78; Conservative 0; Mismatches 70; Indels 0; Gaps 0;
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DB 862 GGCALAAAGGCGCTGGGGGTGACACCGACTACATCTACAGGGCCCATGATCTGTCTG 921
QY 225 ATGTTCTCTTTCATCATCGTGGCCATCTGTGAGCACTGTGAATCCAAGACGGGAA 284
DB 922 CTATCATATTTCATCTTCTTTTCAACATGCTCCGATCTCTCATGACCAAGCTCCGGCA 981
QY 285 CACTCAATGACCCCTACACACAGTACA 312
DB 982 TCCACCAAGCTGAGACCATTCAGTACA 1009
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Search completed: October 31, 2003, 03:33:26
Job time : 32.9427 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: October 29, 2003, 10:35:01 ; Search time 17 Seconds
(without alignments)
306.132 Million cell updates/sec

Title: US-09-550-163-2
Perfect score: 632
Sequence: 1 MSTLSNFTQLEDFERRIFI.....ESKATIHENIGAGFKMSP 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	132.5	21.0	129	US-09-069-896-3	Sequence 3, Appl1
2	132.5	21.0	129	US-09-135-021-78	Sequence 78, Appl1
3	132.5	21.0	129	US-09-135-020-4	Sequence 4, Appl1
4	132.5	21.0	129	US-09-135-010A-4	Sequence 4, Appl1
5	132.5	21.0	129	US-09-444-871-4	Sequence 4, Appl1
6	132.5	21.0	129	US-09-597-735-4	Sequence 4, Appl1
7	132.5	21.0	129	US-09-444-295-4	Sequence 4, Appl1
8	132.5	21.0	129	US-09-471-468-3	Sequence 4, Appl1
9	132.5	21.0	129	US-09-597-732-4	Sequence 4, Appl1
10	132.5	21.0	129	US-09-679-185-2	Sequence 4, Appl1
11	132.5	21.0	129	US-09-597-731-4	Sequence 4, Appl1
12	132.5	21.0	129	US-08-118-101A-6	Sequence 2, Appl1
13	128	20.3	130	US-09-069-896-4	Sequence 4, Appl1
14	128	20.3	130	US-09-471-468-4	Sequence 4, Appl1
15	127.5	20.2	129	US-09-679-185-4	Sequence 4, Appl1
16	78.5	12.4	498	US-09-107-532A-7077	Sequence 7077, Ap
17	74	11.7	262	US-09-134-001C-5532	Sequence 5532, Ap
18	70	11.1	170	US-09-069-896-1	Sequence 1, Appl1
19	70	11.1	170	US-09-471-468-1	Sequence 1, Appl1
20	69	10.9	411	US-08-887-534A-80	Sequence 80, Appl1
21	69	10.9	411	US-09-527-431-80	Sequence 80, Appl1
22	66.5	10.5	72	US-09-107-532A-7246	Sequence 7246, Ap
23	66.5	10.5	514	US-09-107-532A-4234	Sequence 4234, Ap
24	66.5	10.5	563	US-09-134-001C-3172	Sequence 3172, Ap
25	65.5	10.4	305	US-09-674-529B-14	Sequence 14, Appl1
26	65.5	10.4	648	US-09-134-001C-5161	Sequence 5161, Ap
27	65.5	10.4	987	US-08-436-044-6	Sequence 6, Appl1

28	65.5	10.4	987	2	US-08-436-054-6	Sequence 6, Appl1
29	65.5	10.4	987	5	PCT-US95-08812-6	Sequence 6, Appl1
30	65.5	10.4	1276	1	US-08-222-616-24	Sequence 24, Appl1
31	65.5	10.4	1276	4	US-08-446-648-24	Sequence 24, Appl1
32	65.5	10.4	1276	5	PCT-US95-04228-24	Sequence 24, Appl1
33	65.5	10.4	1276	4	US-09-634-920-4	Sequence 4, Appl1
34	65.5	10.4	2016	4	US-09-514-907A-2	Sequence 2, Appl1
35	65	10.3	1835	4	US-09-404-650-5	Sequence 5, Appl1
36	65	10.3	2175	4	US-09-404-650-2	Sequence 2, Appl1
37	65	10.3	2188	4	US-09-404-650-4	Sequence 4, Appl1
38	64.5	10.2	970	2	US-08-673-789-7	Sequence 7, Appl1
39	64.5	10.2	973	1	US-08-162-809-10	Sequence 10, Appl1
40	64.5	10.2	976	4	US-09-302-812-4	Sequence 4, Appl1
41	64.5	10.2	976	4	US-09-511-477-4	Sequence 4, Appl1
42	64.5	10.2	976	4	US-09-511-507-4	Sequence 4, Appl1
43	64	10.1	1367	2	US-08-249-687C-2	Sequence 2, Appl1
44	64	10.1	1367	2	US-08-625-819-2	Sequence 2, Appl1
45	64	10.1	1367	3	US-08-746-559A-2	Sequence 2, Appl1

ALIGNMENTS

RESULT 1
US-09-069-896-3
; Sequence 3, Application US/09069896
; Patent No. 6071720
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Patterson, Chandra
; APPLICANT: Corley, Neil C.
; TITLE OF INVENTION: DELAYED RECTIFIER POTASSIUM
; TITLE OF INVENTION: CHANNEL HOMOLOG
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/069, 896
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Carione, Michael C
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0507 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 129 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 452497
; US-09-069-896-3
Query Match 21.0%; Score 132.5; DB 3; Length 129;

Best Local Similarity 45.1%; Pred. No. 1.2e-07;
Matches 23; Conservative 15; Mismatches 12; Indels 1; Gaps 1;

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Db 45 LYLWMLGFGFPTLIGIMLSYRSKLEHSNDPNVYIESDAWQEKXKAYV 95

RESULT 2

US-09-135-021-78
; Sequence 78, Application US/09135021A
; Patent No. 6150104
; GENERAL INFORMATION:
; APPLICANT: Keating, Mark T.
; APPLICANT: Sniawski, Igor
; TITLE OF INVENTION: A HOMOLOGOUS MUTATION IN KYLOT1 WHICH CAUSES JERVELL
; FILE REFERENCE: 2323-128
; CURRENT APPLICATION NUMBER: US/09/135,021A
; EARLIER FILING DATE: 1998-08-17
; EARLIER APPLICATION NUMBER: 08/874,655
; EARLIER FILING DATE: 1997-06-13
; EARLIER APPLICATION NUMBER: 60/094,477
; EARLIER FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 78
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-135-021-78

Query Match 21.0%; Score 132.5; DB 3; Length 129;
Best Local Similarity 45.1%; Pred. No. 1.2e-07;
Matches 23; Conservative 15; Mismatches 12; Indels 1; Gaps 1;

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Db 45 LYLWMLGFGFPTLIGIMLSYRSKLEHSNDPNVYIESDAWQEKXKAYV 95

RESULT 3
US-09-135-020-4
; Sequence 4, Application US/09135020
; Patent No. 6274332
; GENERAL INFORMATION:
; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.
; TITLE OF INVENTION: MUTATIONS IN THE KCNE1 GENE ENCODING HUMAN MINK WHICH
; TITLE OF INVENTION: CAUSE ARRYTHMIA SUSCEPTIBILITY THEREBY ESTABLISHING
; FILE REFERENCE: 2323-131
; CURRENT APPLICATION NUMBER: US/09/135,020
; EARLIER FILING DATE: 1998-08-17
; EARLIER APPLICATION NUMBER: 08/921,068
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 08/739,383
; EARLIER FILING DATE: 1996-10-29
; EARLIER APPLICATION NUMBER: 60/019,014
; EARLIER FILING DATE: 1995-12-22
; EARLIER APPLICATION NUMBER: 60/094,477
; EARLIER FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-135-020-4

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Matches 23; Conservative 15; Mismatches 12; Indels 1; Gaps 1;

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Db 45 LYLWMLGFGFPTLIGIMLSYRSKLEHSNDPNVYIESDAWQEKXKAYV 95

RESULT 4

US-09-135-010A-4
; Sequence 4, Application US/09135010A
; Patent No. 627978
; GENERAL INFORMATION:
; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.
; APPLICANT: Curran, Mark B.
; APPLICANT: Landes, Gregory M.
; APPLICANT: Comore, Timothy D.
; APPLICANT: Burn, Timothy C.
; APPLICANT: Sniawski, Igor
; TITLE OF INVENTION: KYLOT1 - A LONG QT SYNDROME GENE
; FILE REFERENCE: 2323-133
; CURRENT APPLICATION NUMBER: US/09/135,010A
; EARLIER FILING DATE: 1998-08-17
; EARLIER APPLICATION NUMBER: 60/094,477
; EARLIER FILING DATE: 1998-07-29
; EARLIER APPLICATION NUMBER: 08/921,068
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 08/739,383
; EARLIER FILING DATE: 1996-10-29
; EARLIER APPLICATION NUMBER: 60/019,014
; EARLIER FILING DATE: 1995-12-22
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-135-010A-4

Query Match 21.0%; Score 132.5; DB 3; Length 129;
Best Local Similarity 45.1%; Pred. No. 1.2e-07;
Matches 23; Conservative 15; Mismatches 12; Indels 1; Gaps 1;

Qy 51 LYLWMIGMFSFIIALIVSTVSKRRHSNDPYHOYIVD-WOEKXKSOI 100
Db 45 LYLWMLGFGFPTLIGIMLSYRSKLEHSNDPNVYIESDAWQEKXKAYV 95

RESULT 5
US-09-444-871-4
; Sequence 4, Application US/09444871
; Patent No. 6323026
; GENERAL INFORMATION:
; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.
; TITLE OF INVENTION: MUTATIONS IN THE KCNE1 GENE ENCODING HUMAN MINK WHICH
; TITLE OF INVENTION: CAUSE ARRYTHMIA SUSCEPTIBILITY THEREBY ESTABLISHING
; FILE REFERENCE: 2323-131
; CURRENT APPLICATION NUMBER: US/09/444,871
; EARLIER FILING DATE: 1999-11-22
; EARLIER APPLICATION NUMBER: US 09/135,020
; EARLIER FILING DATE: 1998-08-17
; EARLIER APPLICATION NUMBER: 08/921,068
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 08/739,383
; EARLIER FILING DATE: 1996-10-29
; EARLIER APPLICATION NUMBER: 60/019,014
; EARLIER FILING DATE: 1995-12-22
; EARLIER APPLICATION NUMBER: 60/094,477
; EARLIER FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 114

SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 4
LENGTH: 129
TYPE: PRT
ORGANISM: Homo sapiens
US-09-444-871-4

Query Match 21.0%; Score 132.5; DB 4; Length 129;
Best Local Similarity 45.1%; Pred. No. 1.2e-07;
Matches 23; Conservative 15; Mismatches 12; Indels 1; Gaps 1;

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DB 45 LYLWMVIGFGFPTLIGIMLSYRSKLEHSNDPFNVYIESDAWQEKDQKAVV 95

RESULT 6
US-09-597-735-4
Sequence 4, Application US/09597735
Patent No. 6420124

GENERAL INFORMATION:
APPLICANT: Keating, Mark T.
APPLICANT: Sanguinetti, Michael C.
APPLICANT: Curran, Mark E.
APPLICANT: Landes, Gregory M.
APPLICANT: Connors, Timothy D.
APPLICANT: Burn, Timothy C.
APPLICANT: Splawski, Igor

TITLE OF INVENTION: KYLOT1 - A LONG QT SYNDROME GENE

FILE REFERENCE: 2123-133

CURRENT APPLICATION NUMBER: US/09/597,735

EARLIER FILING DATE: 2000-06-19

EARLIER APPLICATION NUMBER: 09/135,010

EARLIER FILING DATE: 1998-08-17

EARLIER APPLICATION NUMBER: 60/094,477

EARLIER FILING DATE: 1998-07-29

EARLIER APPLICATION NUMBER: 08/921,068

EARLIER FILING DATE: 1997-08-29

EARLIER APPLICATION NUMBER: 08/739,383

EARLIER FILING DATE: 1996-10-29

EARLIER APPLICATION NUMBER: 60/019,014

EARLIER FILING DATE: 1995-12-22

NUMBER OF SEQ ID NOS: 116

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 4

LENGTH: 129

TYPE: PRT

ORGANISM: Homo sapiens

US-09-597-735-4

Query Match 21.0%; Score 132.5; DB 4; Length 129;
Best Local Similarity 45.1%; Pred. No. 1.2e-07;
Matches 23; Conservative 15; Mismatches 12; Indels 1; Gaps 1;

QY 51 LYLWMIGMFSFTIIVLSTVSKRREHSNDPHYQYVED-WQEKYKSOI 100
DB 45 LYLWMVIGFGFPTLIGIMLSYRSKLEHSNDPFNVYIESDAWQEKDQKAVV 95

RESULT 7
US-09-444-295-4
Sequence 4, Application US/09444295
Patent No. 6432644

GENERAL INFORMATION:
APPLICANT: Keating, Mark T.
APPLICANT: Sanguinetti, Michael C.

APPLICANT: Splawski, Igor

TITLE OF INVENTION: MUTATIONS IN THE KCNE1 GENE ENCODING HUMAN MINK WHICH

TITLE OF INVENTION: CAUSE ARRYTHMIA SUSCEPTIBILITY THEREBY ESTABLISHING

TITLE OF INVENTION: KCNE1 AS AN IOT GENE

FILE REFERENCE: 2323-131

CURRENT APPLICATION NUMBER: US/09/444,295

CURRENT FILING DATE: 1999-11-22

US-09-444-295-4

PRIOR APPLICATION NUMBER: 09/135,020
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: 08/921,068
PRIOR FILING DATE: 1997-08-29
PRIOR APPLICATION NUMBER: 08/739,383
PRIOR FILING DATE: 1996-10-29
PRIOR APPLICATION NUMBER: 60/019,014
PRIOR FILING DATE: 1995-12-22
PRIOR APPLICATION NUMBER: 60/094,477
PRIOR FILING DATE: 1998-07-29
NUMBER OF SEQ ID NOS: 114

SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 4
LENGTH: 129
TYPE: PRT
ORGANISM: Homo sapiens
US-09-444-295-4

Query Match 21.0%; Score 132.5; DB 4; Length 129;
Best Local Similarity 45.1%; Pred. No. 1.2e-07;
Matches 23; Conservative 15; Mismatches 12; Indels 1; Gaps 1;

QY 51 LYLWMIGMFSFTIIVLSTVSKRREHSNDPHYQYVED-WQEKYKSOI 100
DB 45 LYLWMVIGFGFPTLIGIMLSYRSKLEHSNDPFNVYIESDAWQEKDQKAVV 95

RESULT 8
US-09-471-468-3
Sequence 3, Application US/09471468
Patent No. 6432687

GENERAL INFORMATION:
APPLICANT: Hallman, Jennifer L.
APPLICANT: Patterson, Chandra
APPLICANT: Corley, Neil C.
TITLE OF INVENTION: DELAYED RECTIFIER POTASSIUM
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/471,468

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/069,896

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Cerrione, Michael C

REGISTRATION NUMBER: 39,132

REFERENCE/DOCKET NUMBER: PF-0507 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650-855-0555

TELEFAX: 650-845-4166

TELEX:

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 129 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: GenBank

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/118,101A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Gaul, Timothy J.
REGISTRATION NUMBER: 33,111
REFERENCE/DOCKET NUMBER: DC27
TELECOMMUNICATION INFORMATION:
TELEPHONE: (609) 252-5901
TELEFAX: (609) 252-4526
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 132 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-118-101A-6

Query Match 21.0%; Score 132.5; DB 1; Length 132;
Best Local Similarity 45.1%; Pred. No. 1.2e-07;
Matches 23; Conservative 15; Mismatches 12; Indels 1; Gaps 1;

QY 51 LYLWMWIGMFSEFIIVLSTVSKRREHSDPYHOYVED-WOEKYSOI 100
DB 48 LYLWLVGFGFPTLIGIMLSYIRSKLHSHDPPNVIISDAMQEKGRALFQARVLESFR 98

RESULT 13

US-09-069-896-4
Sequence 4, Application US/09069896
Patent No. 6071720
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Patterson, Chandra
TITLE OF INVENTION: CORLEY, Neil C.
TITLE OF INVENTION: DELAYED RECTIFIER POTASSIUM
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSER: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/069,896
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Cerrone, Michael C.
REGISTRATION NUMBER: 39,132
REFERENCE/DOCKET NUMBER: PF-0507 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 130 amino acids

TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 203977
US-09-069-896-4

Query Match 20.3%; Score 128; DB 3; Length 130;
Best Local Similarity 41.4%; Pred. No. 3.9e-07;
Matches 29; Conservative 17; Mismatches 20; Indels 4; Gaps 3;

QY 51 LYLWMWIGMFSEFIIVLSTVSKRREHSDPYHOYVED-WOEKYS--OILMLESK 107
DB 46 LYLWLVGFGFPTLIGIMLSYIRSKLHSHDPPNVIISDAMQEKGRALFQARVLESFR 105

QY 108 AT-IHENIGA 116
DB 106 ACVYIENQAA 115

RESULT 14

US-09-471-468-4
Sequence 4, Application US/09471468
Patent No. 6432687
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Patterson, Chandra
TITLE OF INVENTION: CORLEY, Neil C.
TITLE OF INVENTION: DELAYED RECTIFIER POTASSIUM
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSER: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/471,468
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/069,896
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Cerrone, Michael C.
REGISTRATION NUMBER: 39,132
REFERENCE/DOCKET NUMBER: PF-0507 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 130 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 203977
US-09-471-468-4

Query Match 20.3%; Score 128; DB 4; Length 130;
Best Local Similarity 41.4%; Pred. No. 3.9e-07;
Matches 29; Conservative 17; Mismatches 20; Indels 4; Gaps 3;

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: October 29, 2003, 10:46:12 ; Search time 28 Seconds
(without alignments)
751.820 Million cell updates/sec

Title: US-09-550-163-2

Perfect score: 632
Sequence: 1 MSTLSNFTQLEDFRRIRFI.....EESKATIHENIGAGFKMSP 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 642050 seqs, 171146064 residues

Total number of hits satisfying chosen parameters: 642050

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

1: Published Applications_AA.*
2: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
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11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
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17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	632	100.0	123	9 US-09-864-761-49007	Sequence 49007, A
2	632	100.0	123	15 US-10-000-151B-4	Sequence 4, Appl1
3	533	84.3	103	9 US-09-864-761-36713	Sequence 36713, A
4	132.5	21.0	76	9 US-09-864-761-37234	Sequence 37234, A
5	132.5	21.0	129	12 US-10-224-683-3	Sequence 3, Appl1
6	132.5	21.0	129	12 US-10-368-643-4	Sequence 4, Appl1
7	132.5	21.0	129	15 US-10-138-316-4	Sequence 4, Appl1
8	132.5	21.0	129	15 US-10-260-861-2	Sequence 2, Appl1
9	132.5	21.0	129	15 US-10-209-534-3	Sequence 3, Appl1
10	128	20.3	130	15 US-10-209-534-4	Sequence 4, Appl1
11	127.5	20.2	129	15 US-10-260-861-4	Sequence 4, Appl1
12	70	11.1	170	15 US-10-209-534-1	Sequence 1, Appl1
13	70	11.1	523	9 US-09-815-242-5723	Sequence 5723, Ap
14	70	11.1	525	9 US-09-815-242-12651	Sequence 12651, A
15	69	10.9	411	12 US-10-301-997-80	Sequence 80, Appl1

16	68.5	10.8	1590	15 US-10-180-326-1	Sequence 1, Appl1
17	67.5	10.7	380	9 US-09-134-333-12	Sequence 12, Appl
18	67	10.6	272	9 US-09-815-242-5572	Sequence 5572, Ap
19	67	10.6	277	9 US-09-815-242-12282	Sequence 12282, A
20	66.5	10.5	379	12 US-10-100-689-2	Sequence 2, Appl1
21	66.5	10.5	380	9 US-09-134-333-13	Sequence 13, Appl1
22	65.5	10.4	553	9 US-09-815-242-5778	Sequence 5778, Ap
23	65.5	10.4	1276	10 US-09-982-610-24	Sequence 24, Appl
24	65.5	10.4	2015	12 US-10-077-054-2	Sequence 2, Appl1
25	65.5	10.4	2016	9 US-09-840-125-4	Sequence 4, Appl1
26	65.5	10.4	2016	11 US-09-896-994-2	Sequence 2, Appl1
27	65	10.3	190	15 US-10-074-475-250	Sequence 250, App
28	65	10.3	367	9 US-09-815-242-10676	Sequence 10676, A
29	65	10.3	1482	9 US-09-815-242-12484	Sequence 12484, A
30	65	10.3	1835	10 US-09-935-541-5	Sequence 5, Appl1
31	65	10.3	1835	12 US-10-425-800-5	Sequence 5, Appl1
32	65	10.3	2175	10 US-09-935-541-2	Sequence 2, Appl1
33	65	10.3	2175	12 US-10-425-800-2	Sequence 2, Appl1
34	65	10.3	2188	10 US-09-935-541-4	Sequence 4, Appl1
35	65	10.3	2188	12 US-10-425-800-4	Sequence 4, Appl1
36	64.5	10.2	425	12 US-10-199-672-570	Sequence 570, App
37	64.5	10.2	425	12 US-10-187-749-570	Sequence 570, App
38	64.5	10.2	425	12 US-10-194-457-570	Sequence 570, App
39	64.5	10.2	425	12 US-10-184-642-570	Sequence 570, App
40	64.5	10.2	425	12 US-10-196-747-570	Sequence 570, App
41	64.5	10.2	425	12 US-10-173-689-570	Sequence 570, App
42	64.5	10.2	425	12 US-10-173-690-570	Sequence 570, App
43	64.5	10.2	425	12 US-10-173-691-570	Sequence 570, App
44	64.5	10.2	425	12 US-10-173-692-570	Sequence 570, App
45	64.5	10.2	425	12 US-10-173-694-570	Sequence 570, App

ALIGNMENTS

RESULT 1
US-09-864-761-49007
; Sequence 49007, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wenheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aecm1ca-X-1
; CURRENT FILING DATE: 2001-05-23
; PRIOR FILING DATE: 2000-02-04
; PRIOR FILING DATE: 2000-02-04
; PRIOR FILING DATE: 2000-02-04
; PRIOR FILING DATE: 2000-05-26
; PRIOR FILING DATE: 2000-08-03
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 49007
LENGTH: 123
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AP000120.1
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.98
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 0.67
OTHER INFORMATION: EST HUMAN HIT: A1962650.1, EVALUB 3.00e-59
OTHER INFORMATION: SWISSPROT HIT: Q9Y6J6, EVALUB 7.00e-67
US-09-864-761-49007

Query Match 100.0%; Score 632; DB 9; Length 123;
Best Local Similarity 100.0%; Pred. No. 3.4e-64;
Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSTLSNFTQLEDFRIFITMDNFRONTTAEQALQAVDANFYVILYLMWIGMF 60
DB 1 MSTLSNFTQLEDFRIFITMDNFRONTTAEQALQAVDANFYVILYLMWIGMF 60
SFTIIVALTSTVSKREHNSNDPYHOYIVEDWOKYKSQILNLEESKATIHENIGAAGFK 120
QY 121 MSP 123
DB 121 MSP 123

RESULT 2
US-10-000-151B-4
Sequence 4, Application US/10000151B
Publication No. US2003003136A1
GENERAL INFORMATION:
APPLICANT: Balser, Jeffrey R.
APPLICANT: George, Alfred L.
TITLE OF INVENTION: HUMAN KCR1 REGULATION OF HERG POTASSIUM CHANNEL BLOCK
FILE REFERENCE: Vanderbilt Ref No. US2003003136A1 VU0120; Attorney Docket No. US2003
CURRENT FILING DATE: 2000-10-30
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 123
TYPE: PRT
ORGANISM: Homo sapiens
US-10-000-151B-4

Query Match 100.0%; Score 632; DB 15; Length 123;
Best Local Similarity 100.0%; Pred. No. 3.4e-64;
Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 121 MSP 123
DB 121 MSP 123

RESULT 3
US-09-864-761-36713
Sequence 36713, Application US/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
FILE REFERENCE: Aecm1ca-X-1
CURRENT FILING DATE: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 36713
LENGTH: 103
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AP000052.1
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.92
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.4
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.2
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.94


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; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.88
; OTHER INFORMATION: SWISSPROT HIT: Q9Y6J6, EVALUE 2.00e-55
; OTHER INFORMATION: EST_HUMAN HIT: A1962650.1, EVALUE 1.00e-54
US-09-864-761-36713

Query Match      84.3%; Score 533; DB 9; Length 103;
Best Local Similarity 100.0%; Pred. No. 4,9e-53;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 19 FTYMMNMGONTAEBAQAKYDAENFYVILYLMWMGMSFIIAIVLTVSKRR 78
DB 1 FTYMMNMGONTAEBAQAKYDAENFYVILYLMWMGMSFIIAIVLTVSKRR 60
79 HSNDPYHOYIVEDMOEKYSQIINLESKATIHENIGAAGFKM 121
DB 61 HSNDPYHOYIVEDMOEKYSQIINLESKATIHENIGAAGFKM 103

RESULT 4
US-09-864-761-37234
; Sequence 37234, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aecomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 37234
; LENGTH: 76
; TYPE: PRT
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; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AP000121.1
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.94
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.59
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.74
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.66
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.66
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.7
; OTHER INFORMATION: EST_HUMAN HIT: A1246239.1, EVALUE 2.00e-07
; OTHER INFORMATION: SWISSPROT HIT: P15382, EVALUE 1.00e-39
US-09-864-761-37234

Query Match      21.0%; Score 132.5; DB 9; Length 76;
Best Local Similarity 45.1%; Pred. No. 1.2e-07;
Matches 23; Conservative 15; Mismatches 12; Indels 1; Gaps 1;

QY 51 LYLMVMIGMFSFIIVLIVSTVSKRRRHSNDPYHOYIVED-MOEKYSQI 100
DB 9 LYLMVMIGMFSFIIVLIVSTVSKRRRHSNDPYHOYIVED-MOEKYSQI 59

RESULT 5
US-10-224-683-3
; Sequence 3, Application US/10224683
; Publication No. US20030162192A1
; GENERAL INFORMATION:
; APPLICANT: Sotos, John
; APPLICANT: Riehoff, Jr., Hugh
; APPLICANT: Guida, Marco
; APPLICANT: Curran, Mark
; TITLE OF INVENTION: Polymorphisms Associated with Ion-Channel Disease
; FILE REFERENCE: 4389-33
; CURRENT APPLICATION NUMBER: US/10/224,683
; CURRENT FILING DATE: 2002-01-06
; PRIOR APPLICATION NUMBER: 60/314,331
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 60/378,521
; PRIOR FILING DATE: 2002-05-06
; NUMBER OF SEQ ID NOS: 185
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-224-683-3

Query Match      21.0%; Score 132.5; DB 12; Length 129;
Best Local Similarity 45.1%; Pred. No. 2.4e-07;
Matches 23; Conservative 15; Mismatches 12; Indels 1; Gaps 1;

QY 51 LYLMVMIGMFSFIIVLIVSTVSKRRRHSNDPYHOYIVED-MOEKYSQI 100
DB 45 LYLMVMIGMFSFIIVLIVSTVSKRRRHSNDPYHOYIVED-MOEKYSQI 95

RESULT 6
US-10-368-643-4
; Sequence 4, Application US/10368643
; Publication No. US20030170708A1
; GENERAL INFORMATION:
; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.
; APPLICANT: Curran, Mark E.
; APPLICANT: Landes, Gregory M.
; APPLICANT: Connors, Timothy D.
; APPLICANT: Burn, Timothy C.
; APPLICANT: Splawski, Igor
; TITLE OF INVENTION: KvLQT1 - A LONG QT SYNDROME GENE
; FILE REFERENCE: 2323-163
; CURRENT APPLICATION NUMBER: US/10/368,643
; CURRENT FILING DATE: 2003-02-20
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1      PRIOR APPLICATION NUMBER: US 09/597,731
2      PRIOR FILING DATE: 2000-06-19
3      PRIOR APPLICATION NUMBER: US 09/135,010
4      PRIOR FILING DATE: 1998-08-17
5      PRIOR APPLICATION NUMBER: US 60/094,477
6      PRIOR FILING DATE: 1998-07-29
7      PRIOR APPLICATION NUMBER: US 08/921,068
8      PRIOR FILING DATE: 1997-08-29
9      PRIOR APPLICATION NUMBER: US 08/739,383
10     PRIOR FILING DATE: 1996-10-29
11     PRIOR APPLICATION NUMBER: US 60/019,014
12     PRIOR FILING DATE: 1995-12-22
13     NUMBER OF SEQ ID NOS: 116
14     SOFTWARE: PatentIn Ver. 2.0
15     SEQ ID NO 4
16     LENGTH: 129
17     TYPE: PRT
18     ORGANISM: Homo sapiens
19     US-10-368-643-4

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Query Match	21.0%;	Score 132.5;	DB 12;	Length 129;
Best Local Similarity	45.1%;	Pred. No. 2.4e-07;		
Matches 23; Conservative	15;	Mismatches 12;	Indels 1;	Gaps 1

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       ||::||| : ::|||:|||::|||::|||::|||:  
Db     45 LYVLNLGFGFFTLGIIMLSIRSKLEHNSNPENVIESDAMQEKKAYV 95
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RESULT 7
US-10-138-316-4
; Sequence 4, Application US/10138316
; Publication No. US20030054380A1

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: TITLE OF INVENTION: MUTATIONS IN THE KCNE1 GENE ENCODING HUMAN hKCNH2 WHICH
: TITLE OF INVENTION: CAUSE ARRHYTHMIA SUSCEPTIBILITY THEREBY ESTABLISHING
: TITLE OF INVENTION: KCNE1 AS AN LQT GENE
: FILE REFERENCE: 2323-162
: CURRENT APPLICATION NUMBER: US/10/138,316

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; SEQ ID NO 4
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-138-316-4
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Matches	23;	Conservative	15;	Mismatches 12;
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			Gaps	1

OY 51 LYLMTMGNSFIIVALLVSTVKSKRREHSNDPHQIYVED-WOEKYSQOI 100
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DB 45 LYVLMLGVPFGFPFTGLSILSYIRSKLEHSDNPVVYIESDAMQEKD KAV 95

RESULT 8

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US-10-260-861-2
, Sequence 2, Application US/10260861
, Publication No. US20030108924N1
, GENERAL INFORMATION:
,
, APPLICANT: George Jr., Alfred L.
,
, TITLE OF INVENTION: METHOD OF SCREENING FOR SUSCEPTIBILITY TO
, TITLE OF INVENTION: DRUG-INDUCED CARDIAC ARRYTHMIA
, FILE REFERENCE: Attorney Docket No. US20030108924N1 1242-33-2
, CURRENT APPLICATION NUMBER: 2002-09-30
, CURRENT FILING DATE: 2002-09-30
, PRIOR APPLICATION NUMBER: 60/158,696
, PRIOR FILING DATE: 1999-10-08
, NUMBER OF SEQ ID NOS: 11
, SOFTWARE: PatentIn Ver. 2.0
,
, SEQ ID NO 2
,
, LENGTH: 129
,
, TYPE: prt
,
, ORGANISM: Homo sapiens
,
, US-10-260-861-2

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Query Match	21.0%;	Score 132.5;	DB 15;	Length 129;
Best Local Similarity	45.1%;	Pred. No. 2.4e-07;		
Matches 23; Conservative	15;	Mismatches 12;	Indels 1;	Gaps 1;

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Db     45 LVYLMLVGPGCFLLGIMLSYRSKLEHSDNPENVVIIESDAMQEOKDAYV   95
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RESULT 9
US-10-209-534-3
; Sequence 3, Application US/10209534
; Publication No. US20030113844A1

APPLICANT: Hillman, Jennifer L.
Patterson, Chandra
Corley, Neil C.
TITLE OF INVENTION: DELAYED RECTIFIER POTASSIUM
CHANNEL HOMOLOG

NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA

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? ZIP: 94304
?
? COMPUTER READABLE FORM:
?
?     MEDIUM TYPE: Diskette
?     COMPUTER: IBM Compatib!e
?     OPERATING SYSTEM: DOS
?     SOFTWARE: Fastseq for Windows Version 2.0
?

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/209,534
; FILING DATE: 30-Jul-2002
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; PRIOR APPLICATION DATA: ;
 ; APPLICATION NUMBER: US/09/471,468 ;
 ; FILING DATE: <Unknown> ;
 ; APPLICATION NUMBER: 09/069,896 ;

? FILING DATE: <Unknown>
 ?
 ? ATTORNEY/AGENT INFORMATION:
 ? NAME: Cerrione, Michael C
 ? REGISTRATION NUMBER: 39,132
 ? REFERENCE/DOCKET NUMBER: PF-0507 US
 ? TELECOMMUNICATION INFORMATION:
 ?

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; TELEPHONE: 650-855-0555
;
; TELEFAX: 650-845-4166
;
; TELEX: <Unknown>
;
; INFORMATION FOR SEQ ID NO: 3:
;     SEQUENCE CHARACTERISTICS:
;         LENGTH: 129 amino acids

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FILING DATE: <Unknown>
APPLICATION NUMBER: 09/069,896
FILING DATE: <Unknown>

Fri Oct 31 14:53:04 2003

us-09-550-163-2.rapb

Page 7

NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borum
STREET: 233 South Wacker Drive/6300 Sears Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/301,997
FILING DATE: 22-NO. US20030148346A1-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/527,421
FILING DATE: <Unknown>
APPLICATION NUMBER: US/08/887,554
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Rin-Laures, Li-Hsien
REGISTRATION NUMBER: 33,547
REFERENCE/DOCKET NUMBER: 28341/33996
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 474-6300
TELEFAX: (312) 474-0448
TELEX: (312) 474-6600
INFORMATION FOR SEQ ID NO: 80:
SEQUENCE CHARACTERISTICS:
LENGTH: 411 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 80:
US-10-301-997-80

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Query Match      10.9%; Score 69; DB 12; Length 411;
Best Local Similarity 27.9%; Pred. No. 18;
Matches 17; Conservative 12; Mismatches 24; Indels 8; Gaps 1
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Oy 60 FSFIVALTSTVSKRREHS-----NDYHQYIVEDWQEKYSQTILNEESKATIH 111
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Db 348 FSFVITLMMVSFYKDANQERKFGLTLPNKRRLQETIKSQGDEYSDILEKRSRRNIE 407

Oy 112 E 112

Db 408 K 408

Search completed: October 29, 2003, 10:52:13
Job time : 29 secs

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